Philips luminous textile with **kvadrat soft cells**

Content Manager manual

PHILIPS

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1. Content Manager

Welcome and thank you for using version 2.5.x of the Content Manager software.

1.1. Platforms

Content Manager is designed to run on a Microsoft Windows 8, Windows 7, Vista or XP (SP2+) personal computer. Use of a high-performance graphics card is recommended, because the software utilises the DirectX library. Ethernet support is required to connect to the luminous textile panels.

1.2. System overview

A luminous textile panel (LTP) installation is an Ethernet-based LED lighting installation. It is an integrated hardware and software solution designed for to bring ambient lighting effects to spaces.

The Content Manager software is an application that allows you to set up a luminous textile panel configuration and create, edit and upload content to the LTPs. It contains five main functionalities:

1. Configuring the panels and network via **Surface Configurator**
2. Creating content playlists via **Playlist Editor**
3. Converting playlists to panel content via **Content Converter**
4. Creating a playback schedule for playlists via **Scheduler**
5. Uploading all the files created above via **Uploader**

1.3. Terminology

The following list explains the terminology used when discussing the Content Manager software:

- Content: Video files or animations that you can import in the Content Manager. The Content Manager only accepts Windows Media Video files (WMV v9 VC-1 codec). When media with audio information is imported into the Content Manager, the audio data will be ignored.
- Panel: A luminous textile surface.
- Player: The driverbox of a panel. Each LTP contains at least a player.
- Timeline: A timeline is a time sequence ruler on which the user can place animation files. It depicts the time characteristics of animations.
- Playlists: Multiple content files on a timeline that are played in a continuous loop, with fade in/out transitions. A playlist has a fixed length and can contain periods of time in which no content is displayed.
- Album: An album is a collection of playlists generated in Content Manager. The album name can be entered in the Content Converter window. The album can be changed on the control page.
- Fade: A video fade is when a shot gradually fades to (or from) a single colour, usually black or white.
- Crossfade: A gradual fade from one shot to the next is known as a crossfade, mix or dissolve.
- LSC file: The surface configuration file.
- LCP file: "LCP" is the extension for a luminous textile panel content project. An LCP project contains the content, the timelines for various playlists, and the panel and wall configuration. When the Scheduler is programmed, the project file will also contain the scheduling of the playlists.
- LCF file: The converted content files that can be played by a panel.
- Schedule: The playback schedule for the playlists contained in an LCP file.

1.4. Recommendation for video files

The software only supports the Windows Media Video (WMV) format. During the encoding procedure, the following settings are recommended for optimal playback:

- Format: WMV (Windows Media Video v9)
- Codec: VC-1
- Bit rate: average 1 Mbps (for standard quality)
- Keyframe interval: 1s

2. Getting started

2.1. Installation

Before you start installing the Content Manager, please make sure the minimum system requirements are met:

- Operating system: Microsoft Windows XP with Service Pack (SP2), Windows 7 or Windows 8
- Microsoft .NET 4.0 or later
- 2.0 Gigabytes (GB) RAM recommended
- 850 MB of available hard disk space

You need to install the Content Manager on your computer's hard disk. The processor speed and the available RAM impact the graphical performance in the preview mode and may limit the preview's speed. You need to have several GB of available hard disk space for storing your video clips and generated content files for the luminous textile panel installation.

To install Content Manager:

1. Go to our website (*www.largeluminoussurfaces.com/software*) and register with your email address to download the latest version of Content Manger software.
2. Save the "*Philips.ContentManager.Setup.zip*" file on your hard drive.
3. Extract "*Philips.ContentManager.Setup.zip*" to the desired directory.
4. Double click "*Philips.ContentManager.setup.exe*" to start the installation.
5. Follow the instructions in the install wizard.

2.2. Overview of menus and functions

To start the Content Manager:

1. On the desktop, click on the Content Manager icon.
2. On the taskbar, click Start > All Programs > Philips Luminous Textile > Content Manager.

The Content Manager contains five sub-tools:

1. Surface Configurator
2. Playlist Editor
3. Content Converter
4. Scheduler
5. Uploader

After the application has been started, you can very easily switch between tools. In this section, an overview of the functions and menu items will be given.

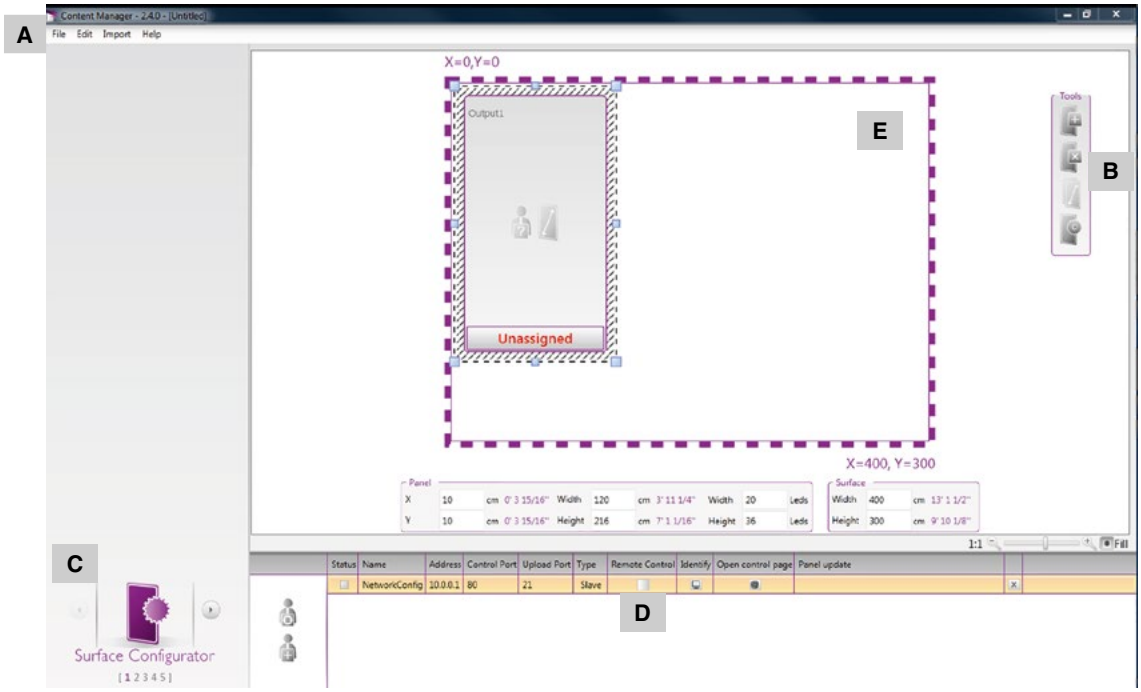

Figure 1: Content Manager

A Menu

This is where you find all functions of the Content Manager.

B Toolbar

Quickly access the key functions of the Content Manager.

C Tool navigation area

This is where you can switch between tools.

D Time and network area

This area provides different functionality for each of the sub-tools.

1. Surface Configurator: configure your LTP network settings.
2. Playlist Editor: edit your playlists.
3. Content Converter: empty area, no functionality.
4. Scheduler: empty area, no functionality.
5. Uploader: empty area, no functionality.

E Work area

This area provides different functionality for each of the sub-tools.

1. Surface Configurator: configure the surface, add/remove a panel, position a panel, etc.
2. Playlist Editor: view/preview a playlist, move and scale the content, zoom in and out, etc.
3. Content Converter: convert the imported content and playlists into a compatible format that can be played on the LTP.
4. Scheduler: set up a playback schedule for the playlists.
5. Uploader: upload the different settings and content to the LTP installation and monitor the progress.

2.2.1. Toolbar

This is a set of tools. Each icon relates to a specific functionality for all the sub-tools. An icon will be greyed out if its functionality is not supported by the sub-tool.

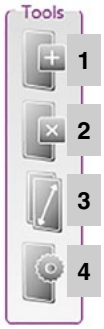

Figure 2: Tools

	Toolbar icons	Sub-tool	Description	Keyboard shortcuts
1		Surface configurator	Add a panel	
2		Surface configurator	Delete a panel	"Delete" key
3		Surface configurator	Auto size Feature available for panels produced after may 2013	
4		Surface configurator	View dimensions	

Table 1: Functions of the tools

2.2.2. Tool navigation

The Content Manager contains 5 sub-tools:

1. Surface Configurator
2. Playlist Editor
3. Content Converter
4. Scheduler
5. Uploader

These tools are integrated into a single application. By clicking or , or selecting a number [1 2 3 4 5] you can switch to another sub-tool.

Surface Configurator > **Playlist Editor** > **Content Converter** > **Scheduler** > **Uploader**

Figure 3: Content Manager

2.2.3. Shortcuts

Some basic shortcuts are available to provide you with quick editing features. The functionalities of the sub-tools change when using different sub-tools. The following table provides an overview of the shortcuts.

Tool Name	Shortcut	Description
Surface Configurator	Ctrl + C	Copy selected panel(s)
	Ctrl + V	Paste selected panel(s)
	Ctrl + Y	Redo an action
	Ctrl + Z	Undo an action
	Delete	Delete selected panel(s)
Playlist Editor	Ctrl + C	Copy selected video from a playlist to the same or another playlist
	Ctrl + V	Paste selected video from a playlist to the same or another playlist
	Ctrl + Y	Redo an action
	Ctrl + Z	Undo an action
	Delete	Delete selected content in a playlist.
All sub-tools	Alt + F4	Exit the Content Manager
	Ctrl + N	Create a new project
	Ctrl + O	Open a project
	Ctrl + S	Save all project files
	Ctrl + G	Pack & go, for compressing the project
	F12	Save project as
	F1	Activate the help file

Table 2: Overview of the shortcuts

2.2.4. Surface Configurator

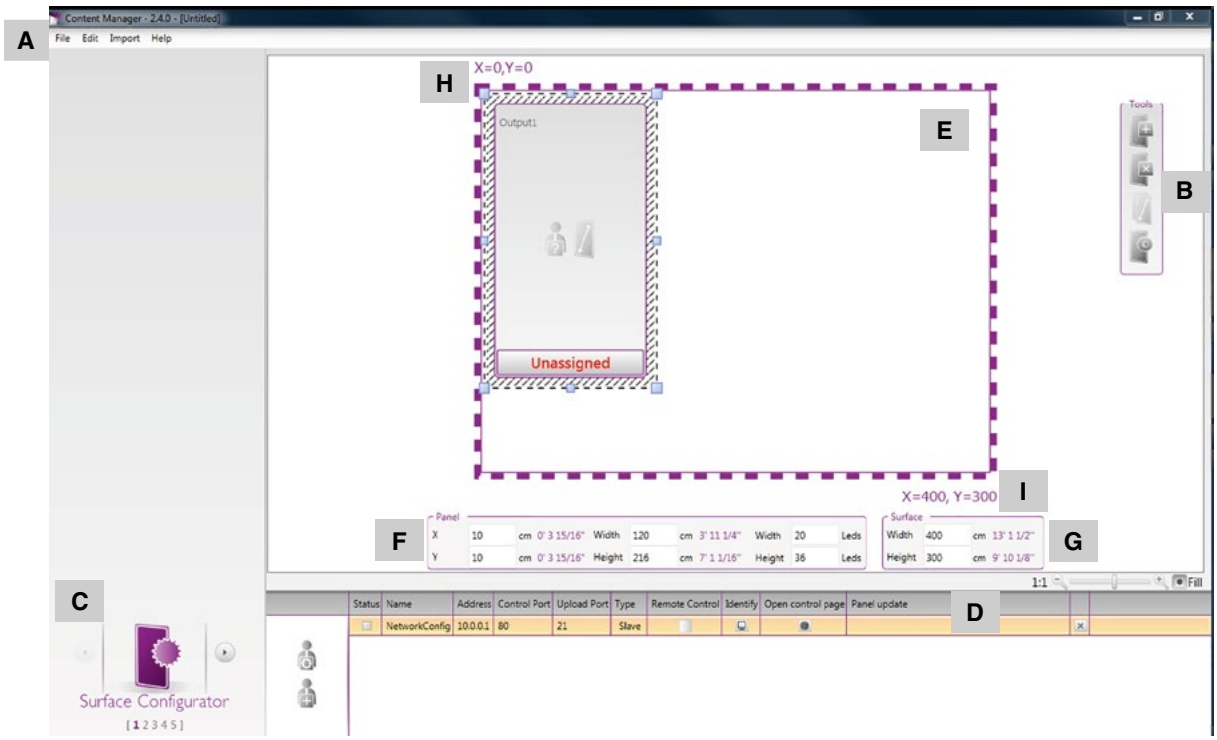

Figure 4: Surface Configurator

A Menu
This is where you find all functions of the Content Manager.

B Toolbar
Quickly access the key functions of the Content Manager.

C Tool navigation area
This is where you can switch between tools.

D Network configuration area
This is where you can configure the LTP network settings.

E Surface editing area
This is where you can add panels to your surface.

F Panel info list
This is where you modify your panel size and postion.

G Surface editing area
This is where you can set the size of your surface.

H, I Surface geometric coordinates
H is the origin: X=0,Y=0. **I** is the largest coordinates: X=width of surface (cm),Y=height of surface (cm).

2.2.5. Playlist Editor

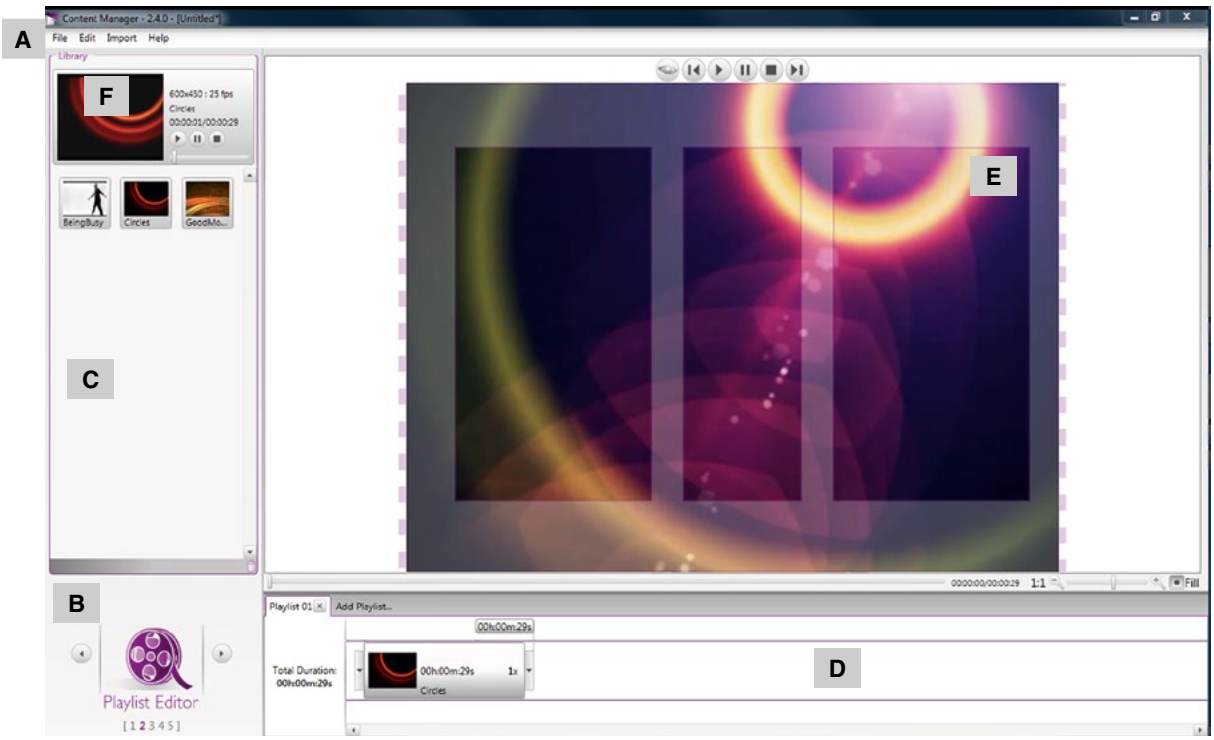

Figure 5: Playlist Editor

A Menu
This is where you find all functions of the Content Manager.

B Tool navigation window
This is the place where you can switch to another tool.

C Content library window
This is where you import and store the location of your video files.

D Timeline window
This is where you edit and order your playlists.

E Preview window
This is where you can preview your playlists.

F Library content preview window
This is where you can preview the selected content file from the content library.

Library window

Figure 6: Library window

1	Library folder, where you can import your video files.
2	Preview a library video. It also displays the basic information of a video file: resolution in pixels, frame rate (fps), name and duration. You can seek an individual frame as well.

Timeline

You can drag & drop a video clip from the library to the timeline to create your own playlists. A video file on the timeline can be repeated many times.

Figure 7: Timeline

1	A playlist. By clicking on the text, you can edit the name of a playlist.
2	The total duration of a playlist.
3	This icon depicts a video file. The name and duration of the video is shown on the icon.
4	The repeat count. This indicates how many times the video will be repeated. The total duration on the icon will be changed based on the repeat counter.
5	Fade in. The maximum fade in time is 10 s.
6	Crossfade. The maximum crossfade time is 10 s.
7	Fade out. The maximum fade out time is 10 s.
8	Delete a video from the time line.
9	Indicates the time at the position on the timeline.
10	Delete a playlist.
11	You can add a playlist by clicking it. Drag the playlist to a new position to change the order of the playlists.

Note:

- For fade in/out and crossfade:
  If the duration of the content is less than 10 s, the maximum fade time is the half of the imported content time.

Preview

You can preview a playlist by clicking on the toolbar. This provides a simulation of the content that will be uploaded and played on the panels.

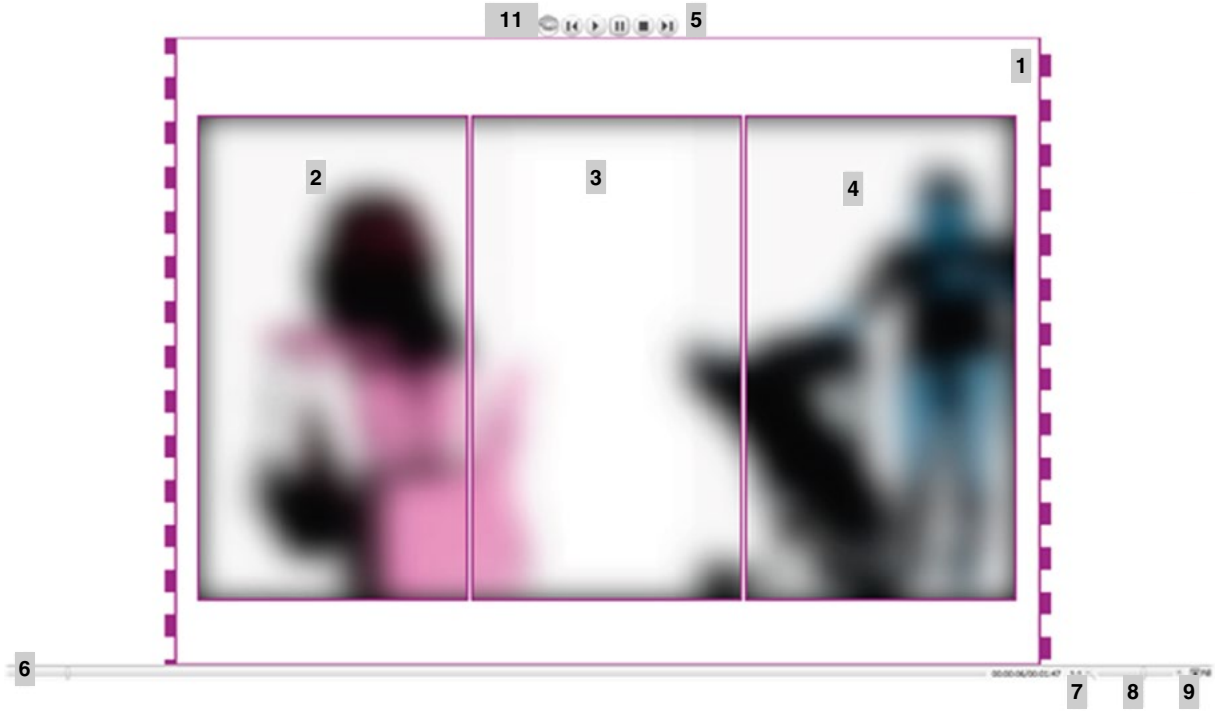

Figure 8: Preview simulation

Note:

- The preview content that is shown in the work area is not an exact representation of the content that will be played on the LTP installation. It simulates the content as close as possible to resemble what the end results would look like on the panels. The simulation will be different depending on the choice of texture, environment ambient lighting conditions, and etc.

You can return to normal viewing mode by clicking .

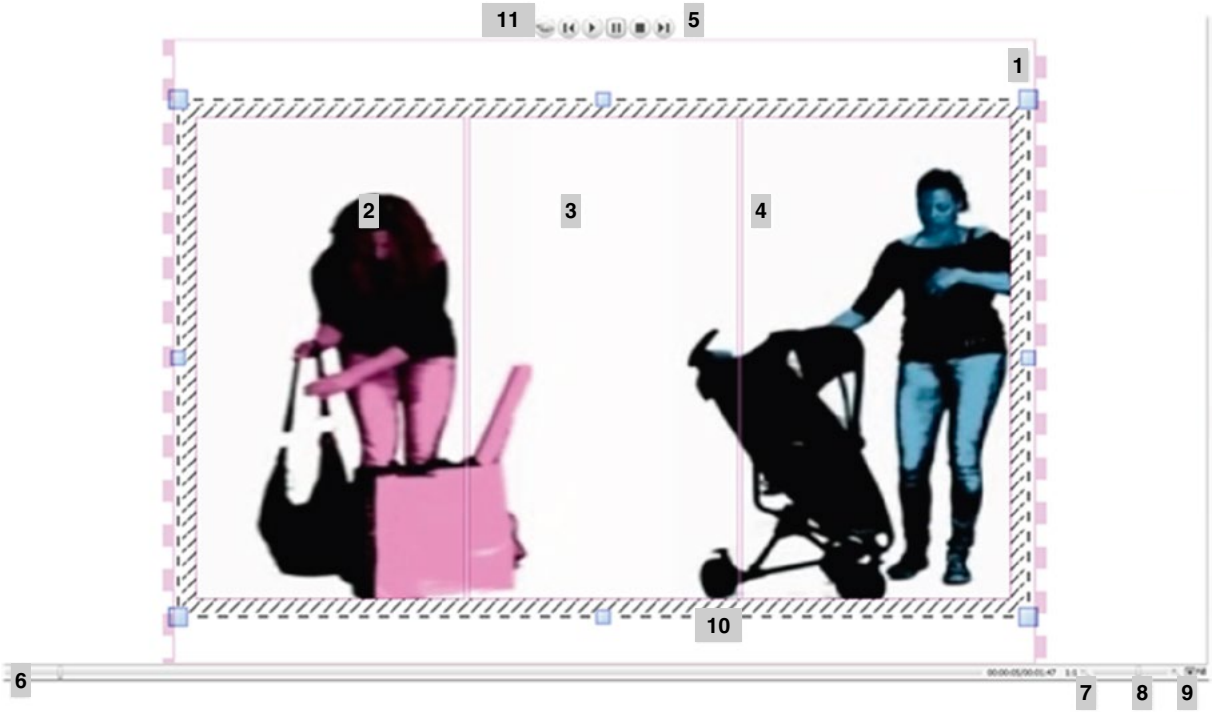

Figure 9: Preview

1	The surface area represents the wall or ceiling on which your installation will be installed.
2	One of the panels that will be installed on a surface.
3	One of the panels that will be installed on a surface.
4	One of the panels that will be installed on a surface.
5	The play functionalities, from left to right: Previous, Play, Pause, Stop, Next.
6	Seek function. This only works when a playlist is in pause mode. You can seek an individual frame in a playlist. This function will work for a repeated video as well.
7	1:1 Set the surface and panel area to 1:1.
8	Zoom in/out on the surface and panel.
9	Fill Set the surface and panel area to "fill" the area above the time line. It will create a maximum view in the area and the surface and panels can be seen as well.
10	The virtual video frame. You can align the virtual frame to your panels by double-clicking the virtual frame.
11	The preview icon.

Note:

- When you double-click a content file on the timeline, the Content Manager will jump to the selected content file and play it.

2.2.6. Content Converter

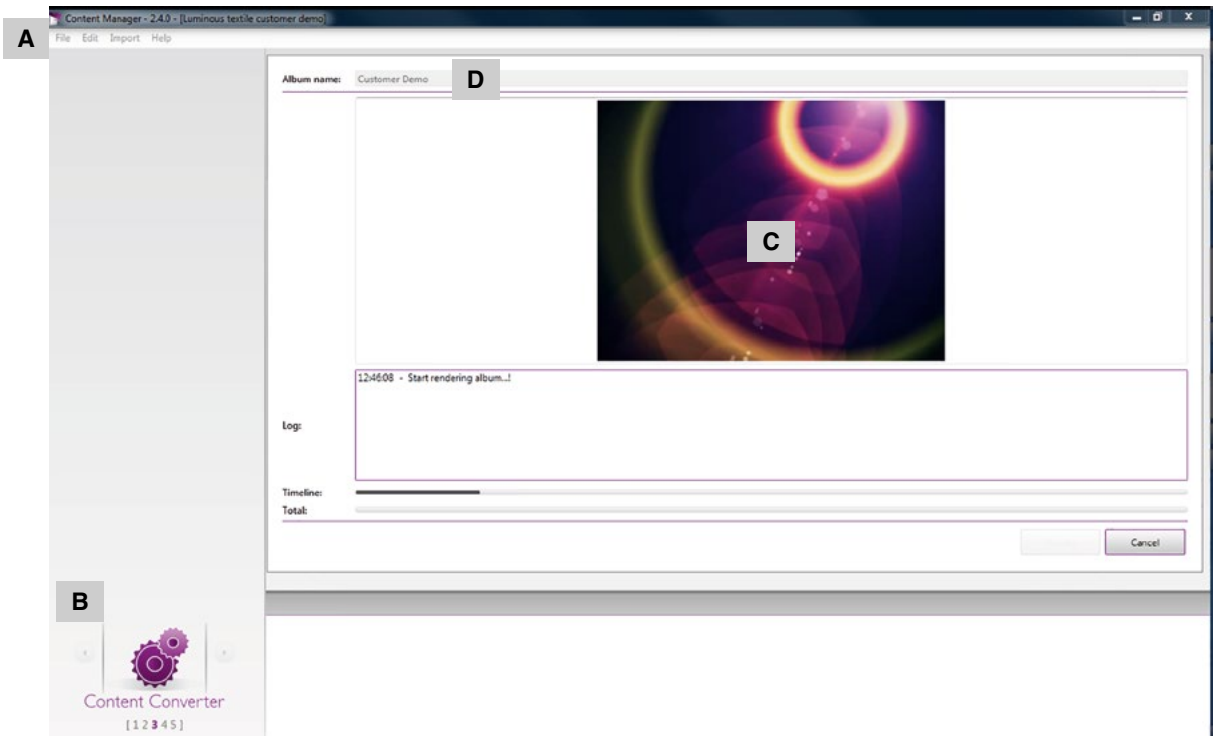

Figure 10: Content Converter

A Menu

This is where you find all functions of the Content Manager.

B Tool Navigation Area

This is where you can switch between tools.

C Converting view area

This shows which frame is being converted.

D Album name

You can specify a specific album name for the project you created that will be uploaded to the panels. You will be able to select the different albums on the Control page.

2.2.7. Scheduler

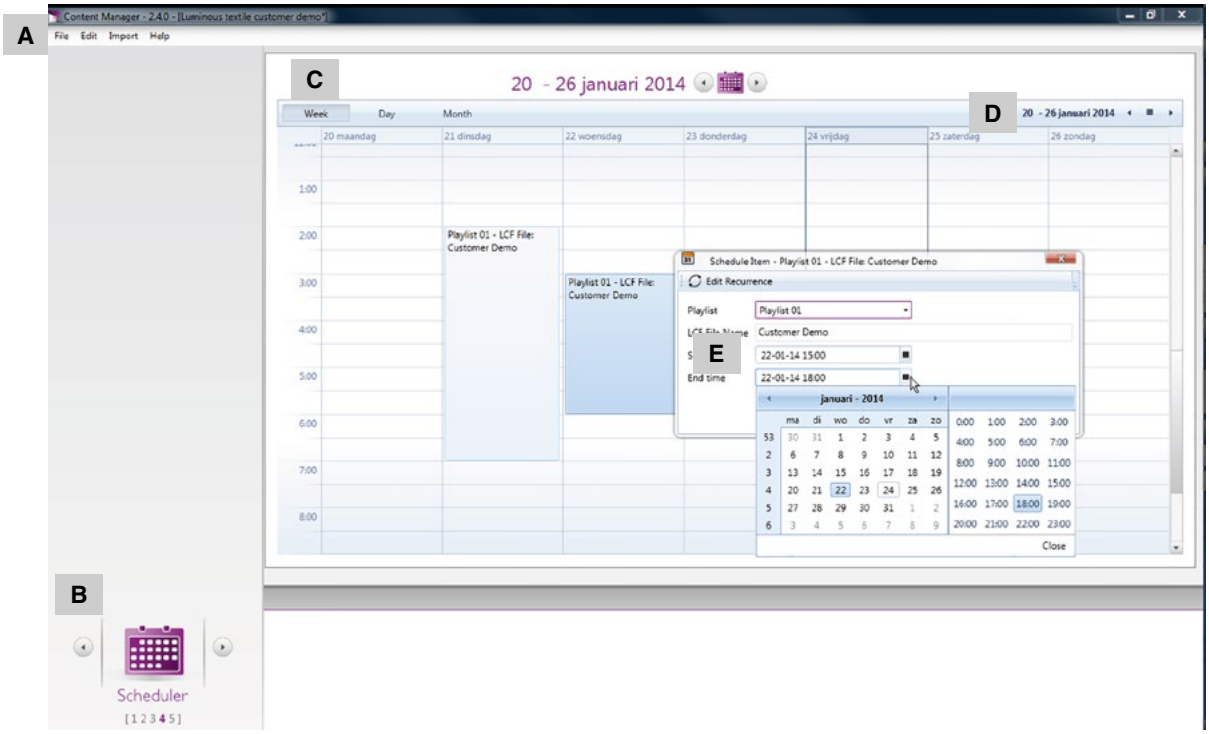

Figure 11: Scheduler

A Menu

This is where you find all functions of the Content Manager.

B Tool navigation area

This is where you can switch between tools.

C Schedule view mode

Here you can switch the Schedule view between Day, Week and Month.

D Schedule editing area

Here you can navigate through days, weeks, months or years of the schedule.

E Playback scheduling area

This is where you create and modify your playlist schedule.

2.2.8. Uploader

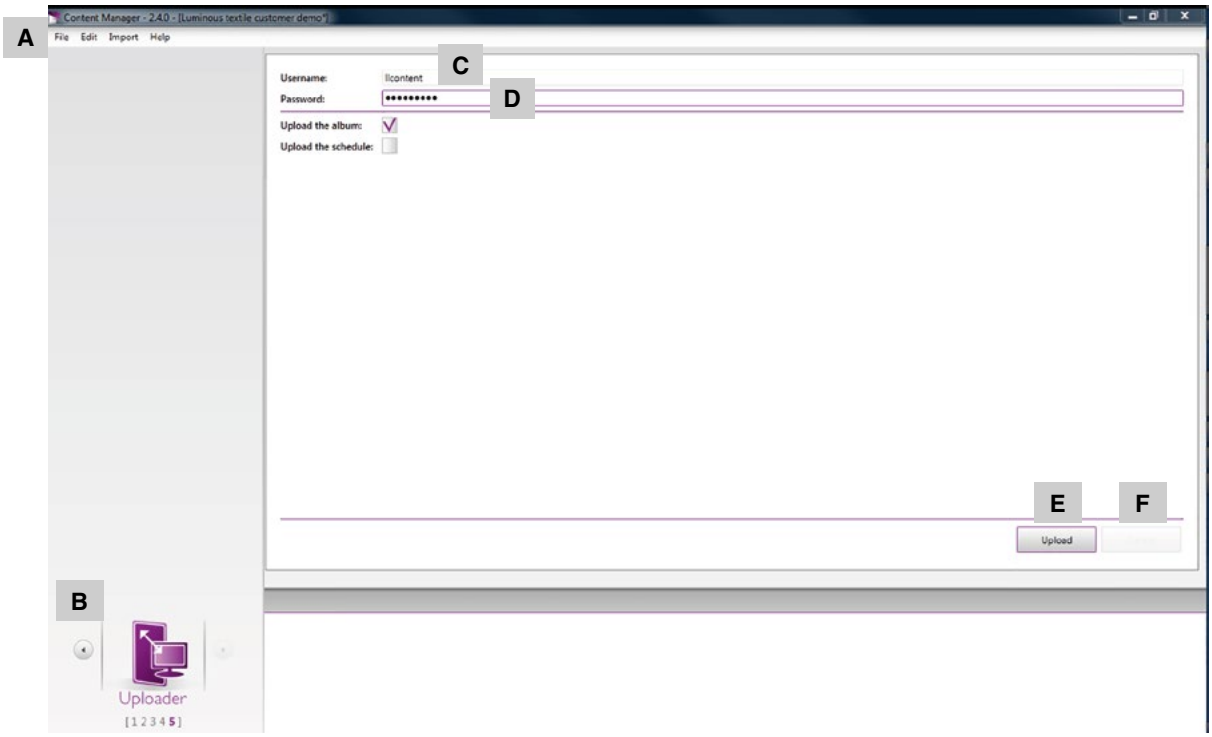

Figure 12: Uploader

A Menu

This is where you find all functions of the Content Manager.

B Tool navigation area

This is where you can switch between tools.

C User name input area

Type an authorized user name. The default user name is llcontent.

D Password area

Type the correct password for the above user name. The user name and password will be remembered after you type the correct user name and password. However if you closed Content Manager and re-started it again, you have to re-enter the user name and password again. The default password is 'llcontent'.

E Upload button

By clicking it you can start content uploading action.

F Cancel button

By clicking it you can stop the upload action.

3. Using the Content Manager

The Content Manager enables you to create playlists for your Luminous textile panel installation. The following steps explain how to create playlists for imported video files and convert them to the format compatible with the LTPs. Once converted, the files and settings must be uploaded to the LTP installation.

The Surface Configurator allows the user to configure the luminous textile panel layout and edit the network settings.

The surface (marked by a dashed line) represents the wall on which the LTPs are mounted.

Make sure the dimensions of the surface and the LTPs defined in the Surface Configurator match the actual installation. The content created in the following chapters will not display correctly if the Surface Configurator settings do not match your LTP installation.

1. The first step is to configure your surface.
    a. How big is your surface?
    b. How many panels will be installed on the surface?
    c. How will the panels be positioned on the surface?
2. The second step is to configure your panel network.
    a. Will the panels be connected to the same network?
    b. Which panel will be the master if they are connected to the same network, and will the LTP installation play content over different panels?
    c. Have you assigned a networkconfig to a panel?
    d. Is every panel reachable in the panel network?
3. The third step is to create your playlists.
    a. How many playlists would you like to create?
    b. Which video files would you like to use to create your playlists?
    c. Where would you like to add fade in/out and crossfade?
    d. Preview the playlists to check whether they are OK.
4. The fourth step is to render the playlists to a file format compatible with the installation (*.lcf).
5. The fifth step is to create a playback schedule.
    a. When and for how long would you like a playlist to be played?
6. The sixth step is to upload all the files and settings you have created in your project.
    a. Content (*.lcf)
    b. Content (*.lcp)
    c. Content (*.lsc)
    d. Schedule (optional)

Remark:

- If the network configuration has not been finalised in the Surface Configurator, the uploading (step 6) will not work.

3.1. Starting projects

To start a new "Content Project":

- In the **Menu**, select **File** > **New project**.

To open an existing project stored on your computer:

- In the **Menu**, select **File** > **Open project**.

Then select and double-click the Lumalive project you would like to open.

Note:

- The project file contains the location of the imported video files and information on playlists. If you have moved or deleted the imported video files, the Content Manager will not be able to locate the video file. The following icon will be shown in the library as the thumbnail for a missing video file. Import your video files again by using menu item "Import content" or double clicking at one of the missing content icons.

3.2. Default project

A user can save a project, which includes the lcp and lsc files as his/her default project. Therefore, the user can always reuse these files to create a new project or new playlists.

- Create the default project: go to the "File" menu and select "Save Project as Default Project".

- Open the default project: go to the "File" menu and select "Open Default Project".

3.3. Configure a surface

When the application starts, the Surface Configurator sub-tool is selected.

To open an existing surface configuration stored on your computer:

- In the **Menu**, select **Import** > **Surface.**

When the surface has already been configured but not stored on your computer, you can import the Surface configuration directly from the installation.

- In the **Menu,** select **Import > Surface from Installation**.

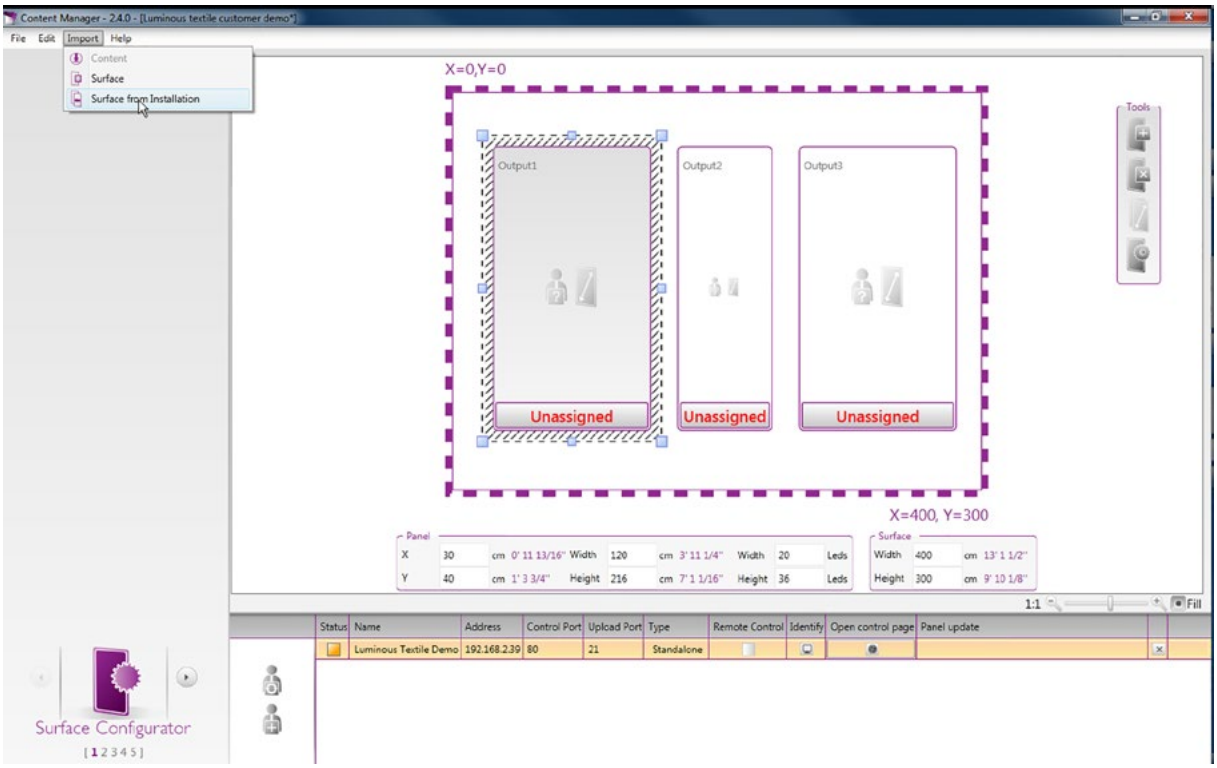

Figure 13: Import Surface

Then select and double-click the surface configuration file (*.lsc) you would like to import.

To create a new surface configuration, you have following options:

- Define the surface size by modifying the "Width" and "Height" in the "Surface" info box.
- Add/delete a panel by clicking the "add panel" or "delete panel" icon on the toolbar.
- Multiple panel selection : press the "Ctrl" key and use the left mouse to select multiple panels. For the selected multiple panels, a user can:
  - Change the size of all panel in the same time by editing the width or height of the panels at the "information box".
  - Align the panel in X or Y directions. If type a value at the Y field, the selected panels will be aligned in the Y direction. If type a value at the X field, the selected panels will be aligned in the X direction.
  - Move the selected panels by using "←", "→", "↓", and "↑" keys.

Note:

- The largest LTP is 6480 mm x 1200 mm. However the maximum panel size supported by one panel player is 4320 mm x 1200 mm. This means if your panel is larger than this size, it requires two panel players to support it. Therefore, you must draw two panels that positioned exactly next to each other without any gap in between to logically depict the oversized panel.
  The sizes of the different panels representing a panel larger than 4320 x 1200 mm must be provided to you by the application engineer. If the information is not available, please contact the Large Luminous Surfaces back office.

3.3.1. Configuring luminous textile panel network

LTPs are connected to a Local Area Network. If you would like to upload your playlists that you have created in the Content Manager to one of the panels, your PC must have access to the LANs to which the LTPs are connected. You must assign a network address to the panel. You use this IP address to gain access to the panel's control page.

1. *Figure 14* and *Figure 15* show two different configurations in which LTPs are connected to a LAN via a separate router. In this situation, each panel's IP address usually starts with 192.168.x.x or 10.x.x.x.
2. In the situation shown in *Figure 14* you must connect your PC within the same network as the LTP installation. Your PC will be assigned an address similar to those of the LTPs and will be able to communicate with them.

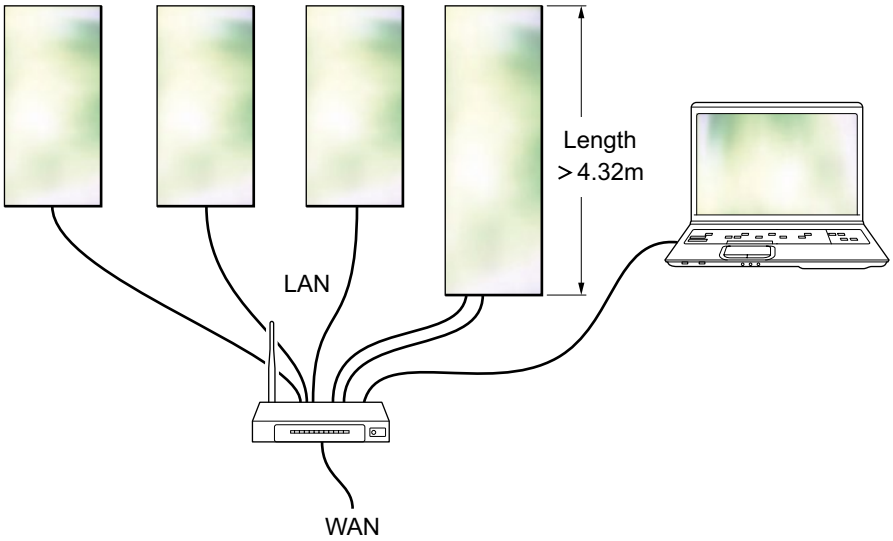

Figure 14: A private LAN. LTPs are not accessible from PCs outside this LAN

3. In the situation shown in *Figure 15* the router is connected to the corporate LAN, to which your PC is also connected. You can upload the playlists via the corporate LAN. Your PC does not have to be connected directly to the private LAN router. Please align with the local IT department to accomplish such installations.

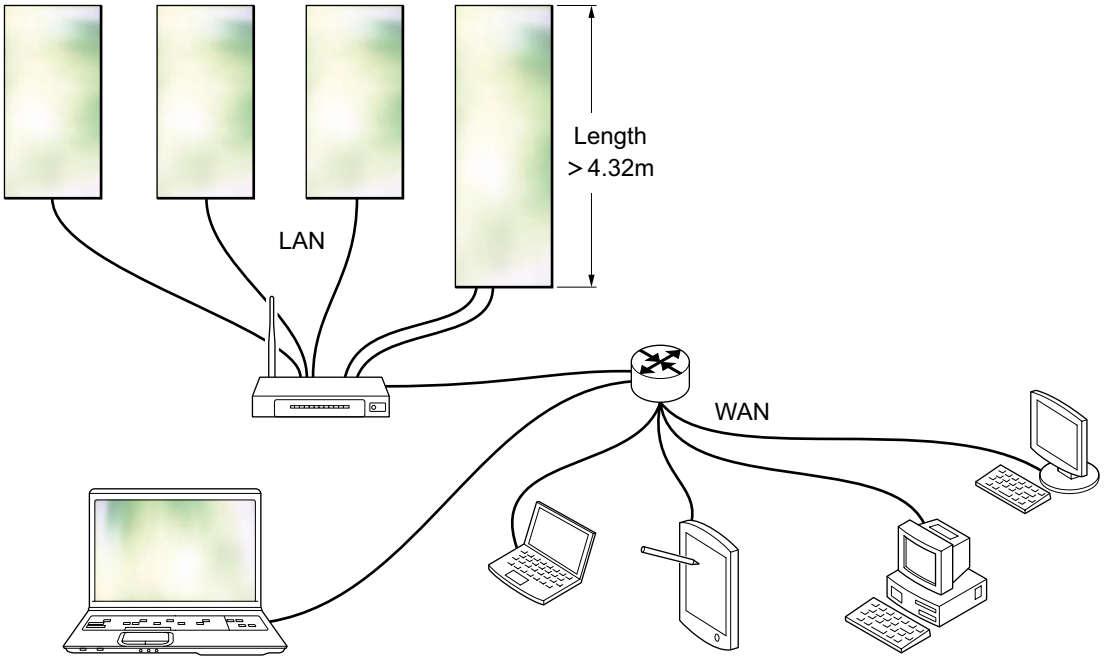

Figure 15: A private LAN. LTPs are accessible from PCs connected to the corporate LAN

4. In the situation shown in *Figure 16* the LTPs are connected directly to a corporate LAN, to which your PC is also connected. You can upload the playlists via the corporate LAN. Please align with the local IT department to accomplish such installations.

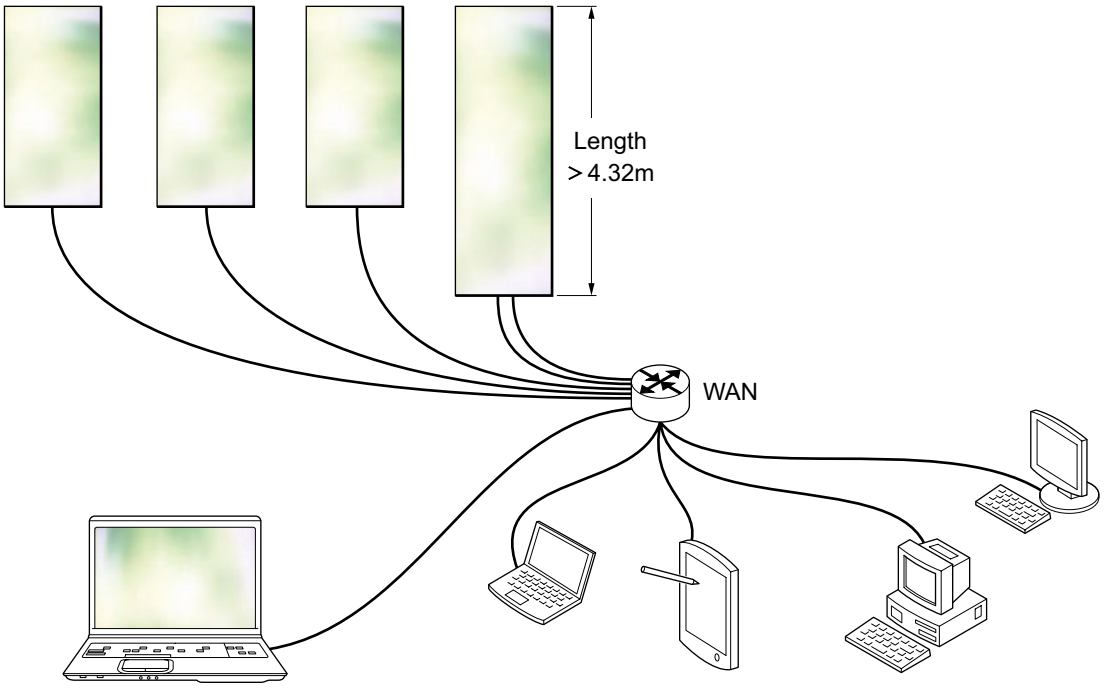

Figure 16: A corporate LAN

3.3.2. Configuring all fields

There are two ways to configure and assign the network configurations to a panel.

1. Auto discovery the panels
2. Manually configure the panels

3.3.2.1. Auto discover panel network

If the PC where Content Manager is installed is connected to the same sub network of the panels, click icon at the "network configuration" area to discover all connected panels. For example, the Content Manager can discover the connected panels in the situation at *Figure 14* and *Figure 16*.

Note:

- If panels could be reached via a wireless network, make sure that the PC is connected to the same wireless network.

3.3.2.2. Manually configure panel network

If you computer has multiple network adapters active a popup will ask you to select the network adapter.
Select the correct network adapter and press 'Discover'

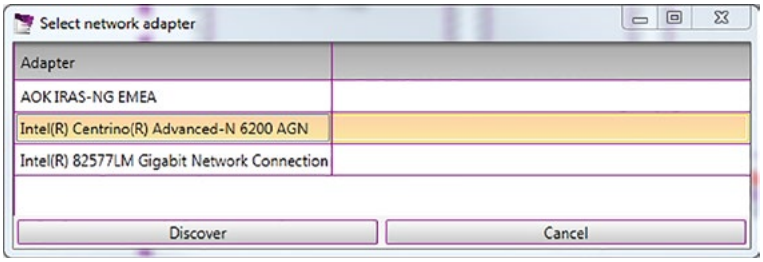

Figure 17: Select network adapter

- Add a network configuration by clicking the icon in the Surface Configurator.

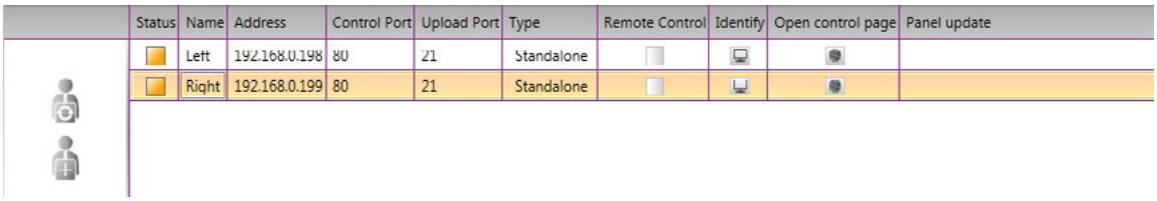

Figure 18: Content Manager - Network configuration

- You can enter a name for the new configuration if you want. The default name is "NetworkConfig" followed by a number.
- Type the actual IP address in the address field. If all panels are connected to a LAN behind a router, they will all have the same IP address. Then:
  - Assign an unique control port number
  - Assign an unique upload port number
- Delete a configuration by clicking ×.

Note:

- The control port (Port 80) and upload port (Port 21) can be configured in the router. To learn more about port forwarding or router setup, consult the local IT department or contact LLS support via *www.largeluminoussurfaces.com.*

3.3.2.3. Set panel type

If an installation contains more than one panels, you have to set a type for each panel. It is for the purpose of playing content among all panels in a synchronized way.

- Select a type in the type field. You can choose Master, Slave or Standalone.
  - Master: the panel with this network configuration will be the master panel, which will initiate the synchronisation signal, command, etc. The icon depicts the master panel.
  - Slave: the panels with this network configuration will be the slave panels, which will receive the synchronisation signal, commands, etc., from the master and execute them. The icon depicts a slave panel.
  - Standalone: these panels will operate independently. The icon depicts a standalone panel.
  - Remote Control: indicates that a remote control is connected to this panel. In general, the remote control will be connected to the "Master" panel.

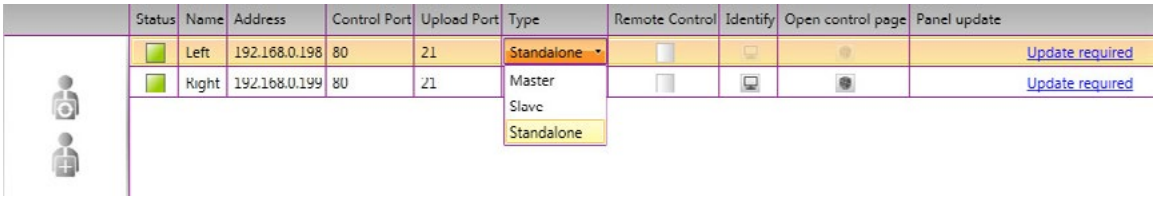

Figure 19: Content Manager - Set panel type

- For an "**oversized**" panel, if the panel is set as "Standalone", you have set one of the "sub-panels" as the **Master** and another one as **Slave** to have them play the content as one panel.

Note:

- Beware, you do need clicking the "Set type" icon to execute the "set action" for each panel after you have set the type of a panel.
- For more information about the "Master/Slave" configuration, please consult the *Installation and cleaning guide* and refer to "Master and Slave or Standalone configuration" in Chapter 3. Ensure there is only 1 master panel in your network. Having multiple master in a network will lead to undesired behavior to slave panels.

3.3.2.4. Assign a network configuration to a panel

- Assign a configuration to a panel by clicking

on a panel and selecting one of the configurations from the list. The icon depicts an unassigned panel.

Note:

- If only one panel is discovered, and there is only one panel in de surface, the panel will automatically be assigned.

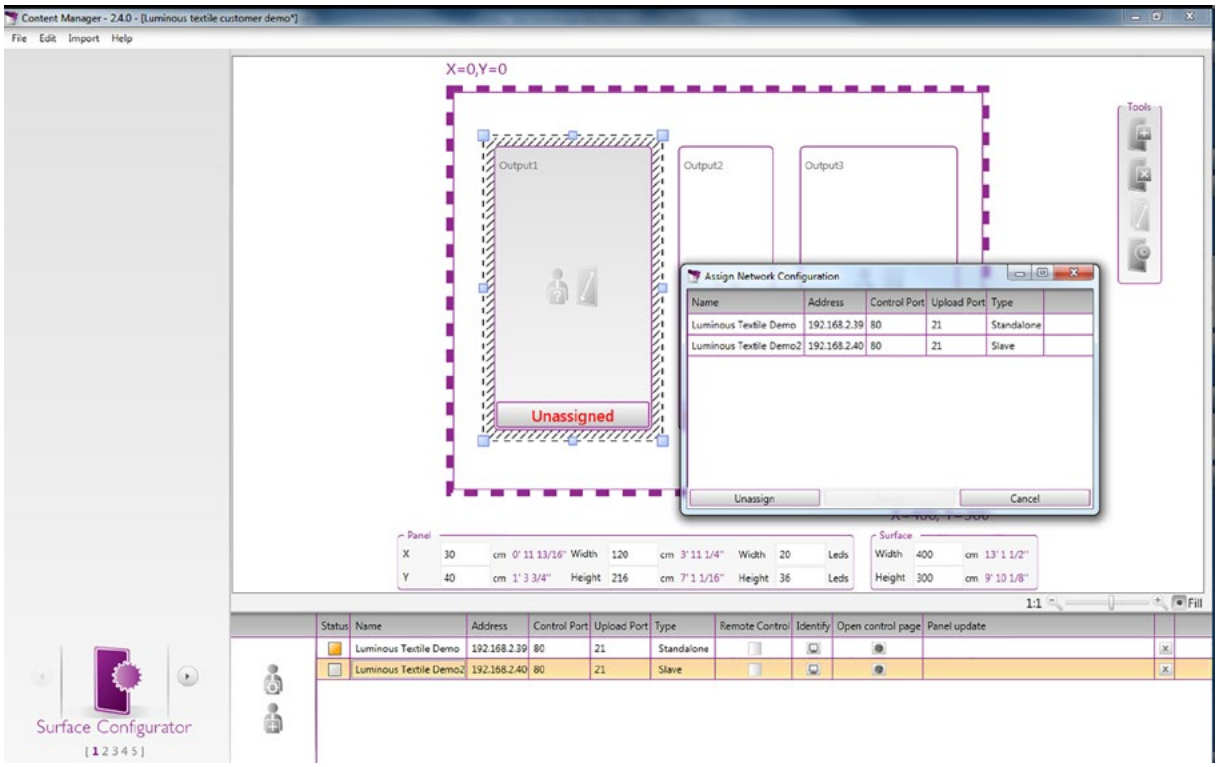
Content Manager - 2.4.0 - [Luminous textile customer demo*]
File Edit Import Help
X=0,Y=0
Output1
Output2
Output3
Unassigned
Tools
Assign Network Configuration
Name Address Control Port Upload Port Type
Luminous Textile Demo 192.168.2.39 80 21 Standalone
Luminous Textile Demo2 192.168.2.40 80 21 Slave
Unassign
Cancel
Panel
Surface
Status Name Address Control Port Upload Port Type Remote Control Identify Open control page Panel update
Luminous Textile Demo 192.168.2.39 80 21 Standalone
Luminous Textile Demo2 192.168.2.40 80 21 Slave
Surface Configurator
[1 2 3 4 5]

Figure 20: Surface Configuration Assign

After you have auto discovered or manually configured the panel network, you have to assign each panel to one of these network configuration.

- Beware it is not possible to assign a network configuration to two panels. It has been excluded by the Content Manager.

3.3.2.5. Panel status

- After finishing the assignment, you can view the connection status of a panel. 4 status are defined:

1. The green icon indicates that a player with related IP address is found in the network and assigned to a panel that is drawn above.
2. The red icon indicates that a player with related IP address is NOT found in the network but it is assigned to a panel drawn above.
3. The orange icon indicates that a player with related IP address is found in the network but it is NOT assigned to a panel drawn above.
4. The grey icon indicates that a player with related IP address is NOT found in the network and it is NOT assigned to a panel drawn above.

The auto size correction feature is only available for luminous textile produced after may 2013.
If Content Manager is connected to panels produced before this date, the panel's dimensions need to be filled in manually in the panel properties window.
A yellow warning will appear in front of the status ("Missing the factory initialization information! No auto size correction for this panel. Please contact LLS service" when hoovering above it)
There is not need to contact LLS service, however when missing this feature is causing you issues, feel free to contact LLS service.

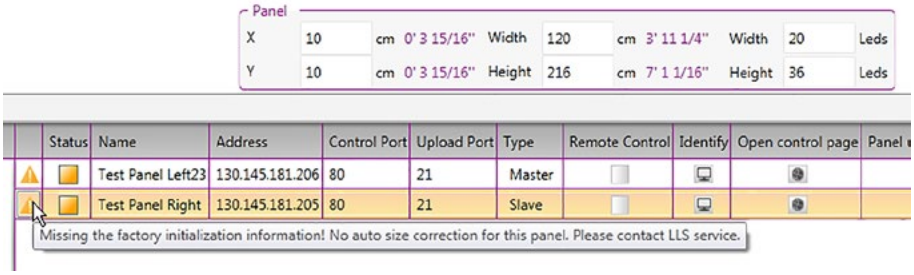
Panel
X 10 cm 0' 3 15/16" Width 120 cm 3' 11 1/4" Width 20 Leds
Y 10 cm 0' 3 15/16" Height 216 cm 7' 1 1/16" Height 36 Leds
Status Name Address Control Port Upload Port Type Remote Control Identify Open control page Panel
Test Panel Left23 130.145.181.206 80 21 Master
Test Panel Right 130.145.181.205 80 21 Slave
Missing the factory initialization information! No auto size correction for this panel. Please contact LLS service.

Figure 21: Missing the factory initialization information

3.3.2.6. Identify a panel

In the installation place, after assigning each panel to a network configuration, you have to check if each panel is assigned with a correct network configuration such that the panels are viewed in the correct sequence both in the Content manager and on the installed wall.

Please click "Identify" to identify:

- Select a type for the configured panel (i.e. the configuration that has been assigned) by clicking .
- Select a panel from which you want visual feedback during an installation by clicking the icon in the identify field (See *Figure 22*).

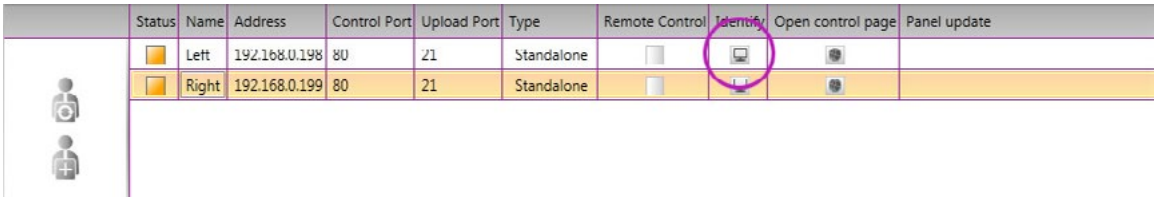

Figure 22: Content Manager - Identify panel

The selected panel will display the following pattern. The left top corner will be red. If it is not, the rotation of the panel is not correct.

- Beware, you have to click the "identify" icon again to go back to the panel normal playing status. Otherwise the panel will stay to the "Identify" status forever.
- Since there are two panels are drawn for representing the "**oversized**" panel, please use "Identify" function to make sure that the correct network configurations are assigned to these two panels.

3.3.2.7. Panel update

Update the player firmware. If "Update required" text appears to this field, it means a new version of player firmware is available and an update is required for this player.

- Beware, an update action will take approximately 3~4 minutes. Please do not unplug a panel from the mains. Very rarely this can lead to an fatal failure. If so please contact the Large Luminous Surfaces back office.

3.3.2.8. Features nice to know

This section lists some features nice to know.

- The playback orientation can be rotated. This can be set in the administrator section of the control page. Additional details are provided in *section 4.1*. After a rotation of the panel please re-discover your network and press the to update the new settings
- You can access a panel's control page by clicking the icon. The Content Manager will open the panel's control page in your default browser.
- Beware, a network configuration will be saved in the project file only if the configuration is being assigned to a panel.
- View a panel's info: select a panel and hover the mouse over the panel; an info box will appear, the "output1" indicates the output directory, where the converted content (*.lcf) will be saved for this panel.

Note:

- Control port: for http connection. The default is 80.
- Upload Port: for ftp connection. The default is 21.
- For multiple panels:
  - It is NOT allowed to assign multiple panels to the same configuration.
  - The combination of IP address and control port or IP address and upload port must be unique.
  - These configuration rules are checked by the software.
- There is only ONE Master per network. The Content Manager does not check this. If there are multiple masters in a panel sub-network. An user has to make sure that only one master is in the panel sub-network.

3.4. Creating playlists

To start creating playlists for luminous textile panels, you have to create or import your area/surface configuration file that you have created in Surface Configuration. By selecting Import - Surface in the Menu area to open the "Importing a surface configuration" window, you can import the configuration file (you must select a file with the "lsc" extension).

3.4.1. Importing video files

To import video files to the Content Manager library:

- In the **Menu**, select **Import** > **Import Content**.

Select one or multiple video files, then click the "**Open**" button.

3.4.2. Creating/editing a Playlist

- Drag & drop video files to the timeline one by one. You also have the following options:
  - Reposition a video: select a video, drag it to the new position and then drop it.
  - Repeat multiple times for a video file.
  - Copy & paste a video to another place on the timeline.
- Change the name of a playlist: double-click the name of a playlist you would like to change, type the new name then press the "**Return**" key.
- Add/delete a playlist.
- Add a fade in option: only possible at the beginning of a video.
- Add a fade out option: only possible at the end of a video.
- Add a crossfade option between two videos. After you set the crossfade option for one of the two videos you cannot set crossfade for another video anymore.
- Map your video to the panels. You can change the virtual frame size or move it around to decide which frame part will be mapped to a panel. To align with your panels, double-click the virtual video frame. The tool will auto align the frame with the panels.

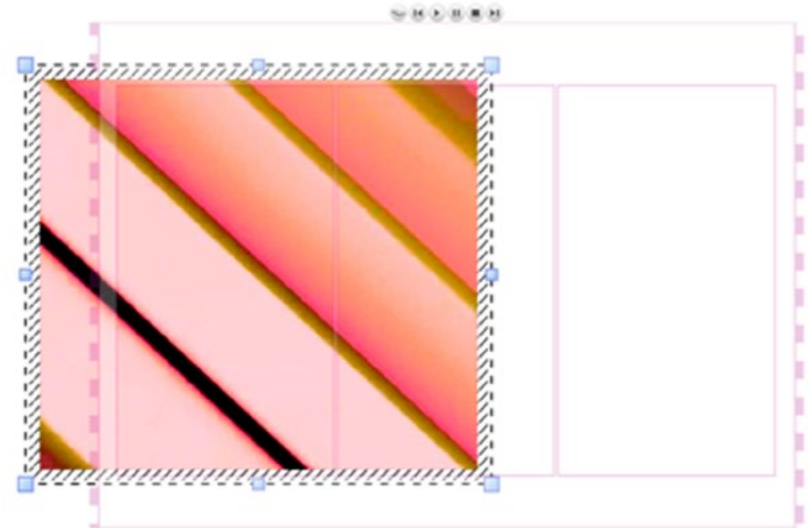

Figure 23: Virtual frame and panels

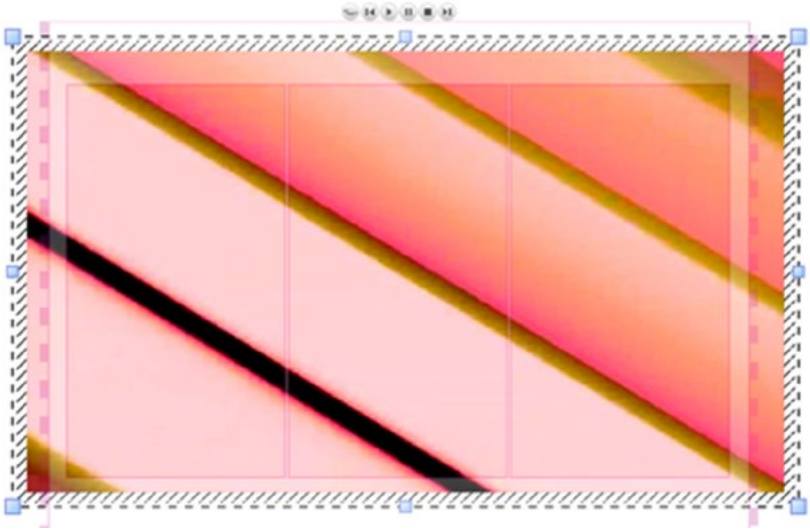

Figure 24: Move and scale the virtual frame

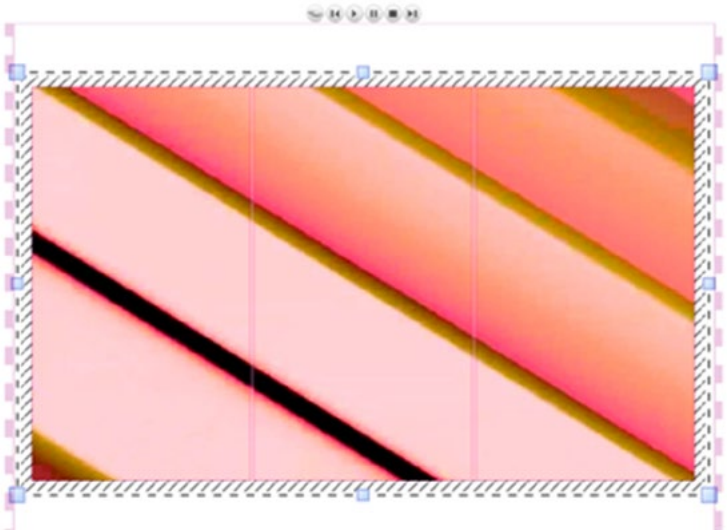

Figure 25: Align virtual frame with the panels

3.4.3. Viewing/previewing a playlist

After finishing your creation, you will want to review your playlists and see how they look on the panels. The following options will help you view, preview, or zoom in/out on a playlist.

- Zoom in/out, view the playlist
- 1:1 set the view to 1:1
- Fill: fill the view area
- Preview: you can switch to the preview mode by clicking the icon on the toolbar. Please **be aware** that this is only a simulation. It will look different on a panel, with its surrounding lights.
- Seek a frame. Once you have paused a playlist that was playing, you can use the slider bar to seek a particular frame. The seek bar is located above the timeline.

Figure 26: Seek bar

3.4.4. Converting the content

To render the playlists to a format compatible with the LTP, go to the Content Converter Tool and press "Start" to convert the content and playlists you created in the Playlist editor tool. You can rename your playlists. The default name is "content".

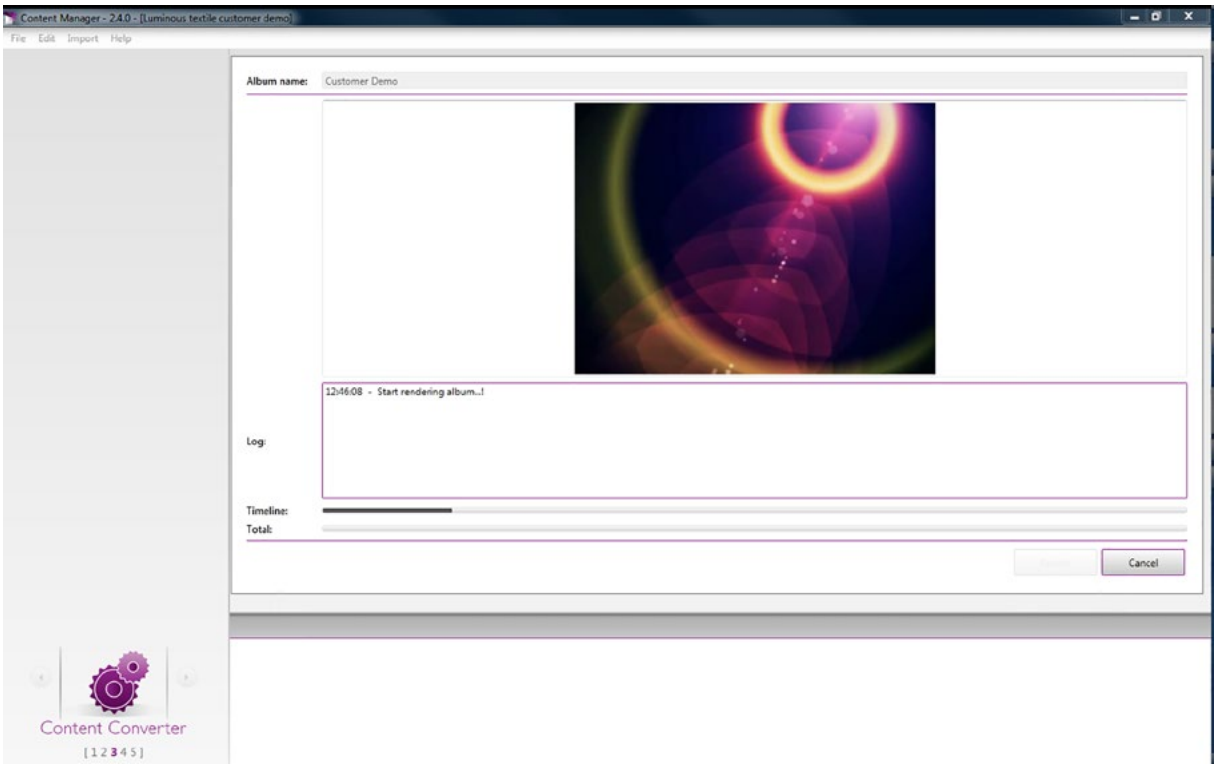

Figure 27: Content Converter

3.5. Creating a playback scheduler

Switch to the Scheduler tool to create a playback schedule for your playlists. Double-click in the schedule area (day, week, month) to activate the schedule popup window.

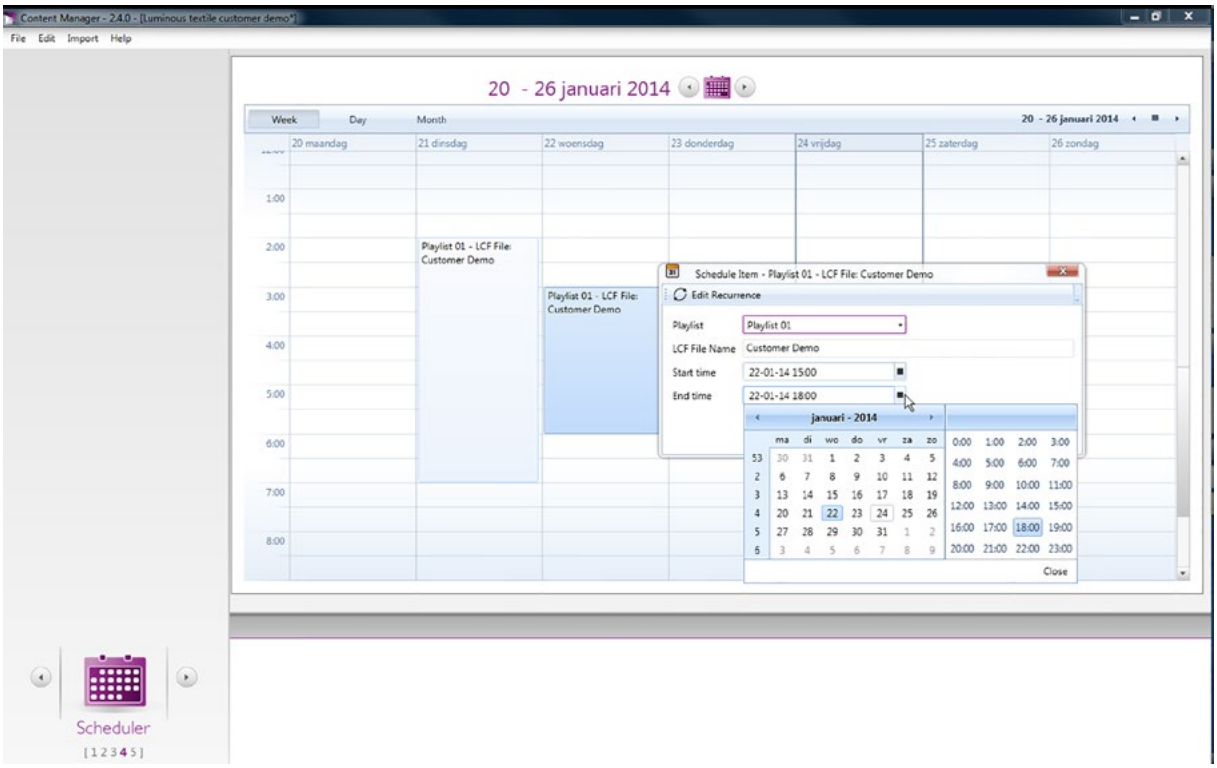
Content Manager - 2.4.0 - [Luminous textile customer demo5]
File Edit Import Help
20 - 26 januari 2014
Week Day Month
20 maandag 21 dinsdag 22 woensdag 23 donderdag 24 vrijdag 25 zaterdag 26 zondag
Playlist 01 - LCF File: Customer Demo
Schedule Item - Playlist 01 - LCF File: Customer Demo
Edit Recurrence
Playlist Playlist 01
LCF File Name Customer Demo
Start time 22-01-14 15:00
End time 22-01-14 18:00
januari - 2014
Close
Scheduler
[1 2 3 4 5]

Figure 28: Schedule playlists

- Select the start time and end time.
- Set a recurrence option for the playlist.

Note:

- The Scheduler UI is similar to that of the Microsoft Outlook Meeting Scheduler.
- The schedule will not be saved as a separate file. It will only be generated when you upload it.

3.6. Uploading files to luminous textile panel installation

Once you have created surface configuration, content and playback schedule files you have to upload them to the panels. You can choose which file you would like to be uploaded to the panels. Before clicking the "upload" button, make sure:

- Your PC is correctly connected to the network of the LTP installation.
- The status of panels is green in the Surface Configurator.
- The correct user name and password are correctly entered.

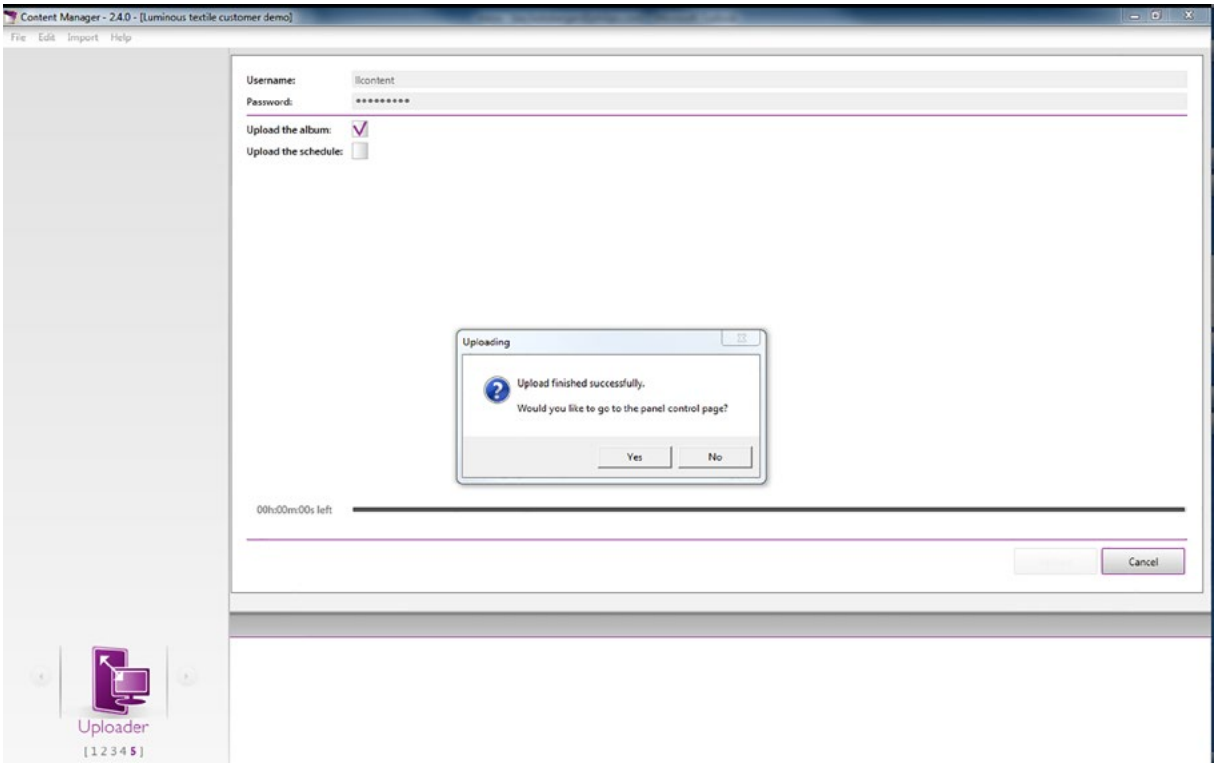

Figure 29: Username & Password window

Note:

- This option is limited to authorised users.

Please input the username and password. The factory settings are:

- Username: llcontent
- Password: llcontent

3.7. Using a panel's control page

After you have successfully uploaded the files, a pop up window will show up and give you an option to go to "the control page" of the "Master" panel. Otherwise, you can activate a control page of a panel by clicking the icon in the surface configuration network list.

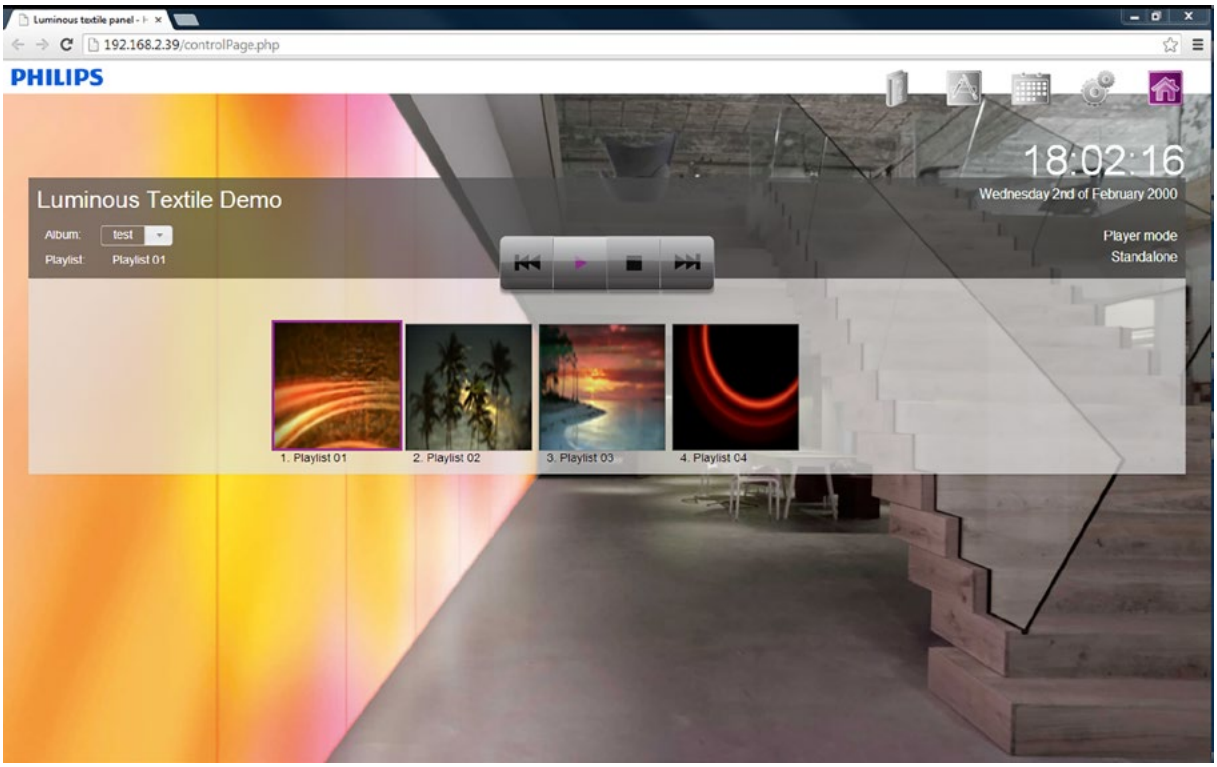

Figure 30: Control page

For more information about the control page and the administrator section see *section 4.1*.

3.8. Firmware update

The player firmware can be updated via the Content Manager. Go to the "**Help**" menu and select "*Update panel software*" option.

Note:

- This option is limited to authorised users.

Please input the username and password. The factory settings are:

- Username: llcontent
- Password: llcontent

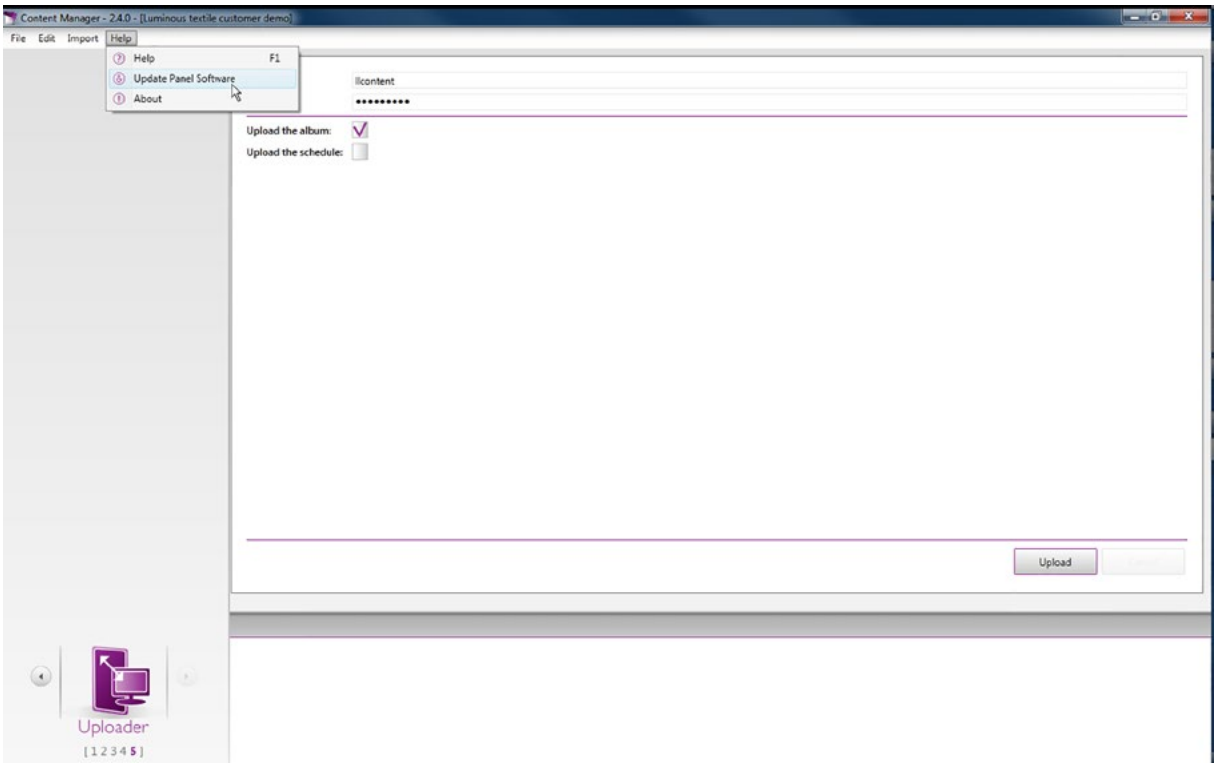

Figure 31: Firmware Update, Update panel software

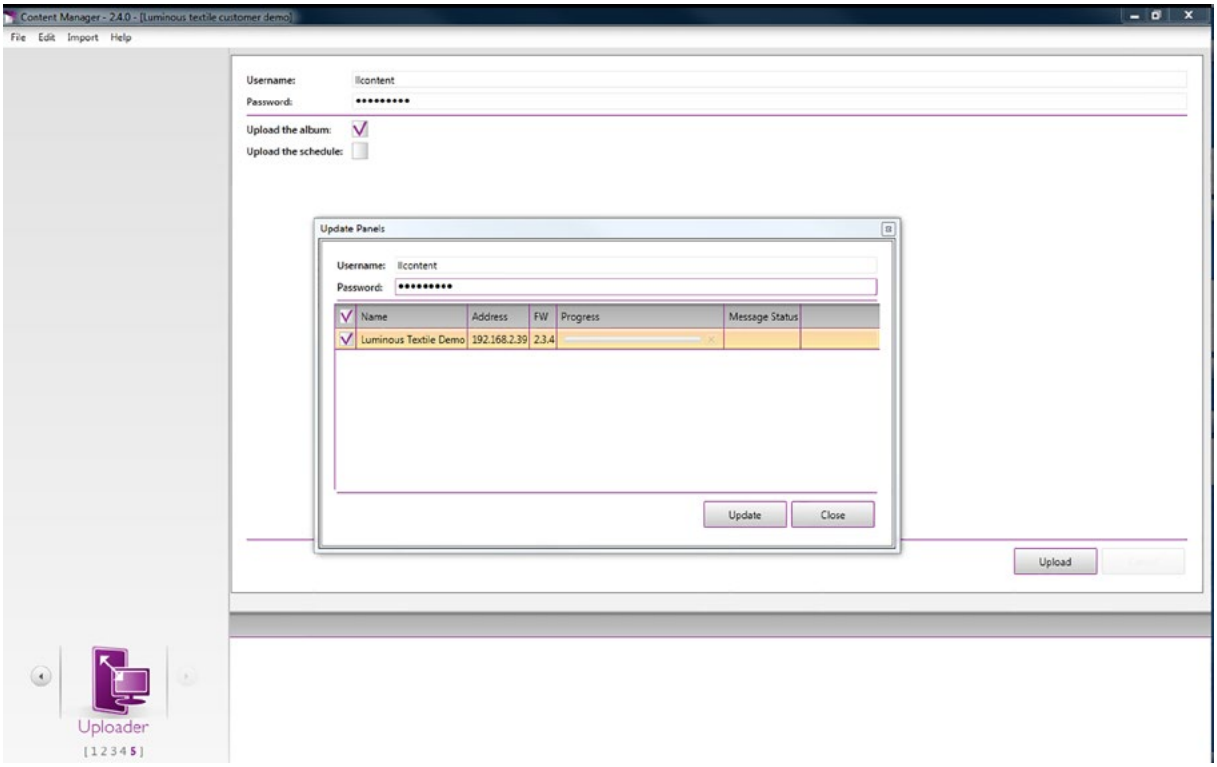

Figure 32: Firmware Update,

3.9. Pack & Go

To share or send your project to other users, go to "File" menu and select "Pack & go" option or use "Ctrl +G". The Content Manager will compress all used content files, lcp, lsc, and lcf files to a file so that it can be sent/shared with another user. In the pop up window, you can set the options to not include all "UNUSED" inventory items into your "pack & go" files.

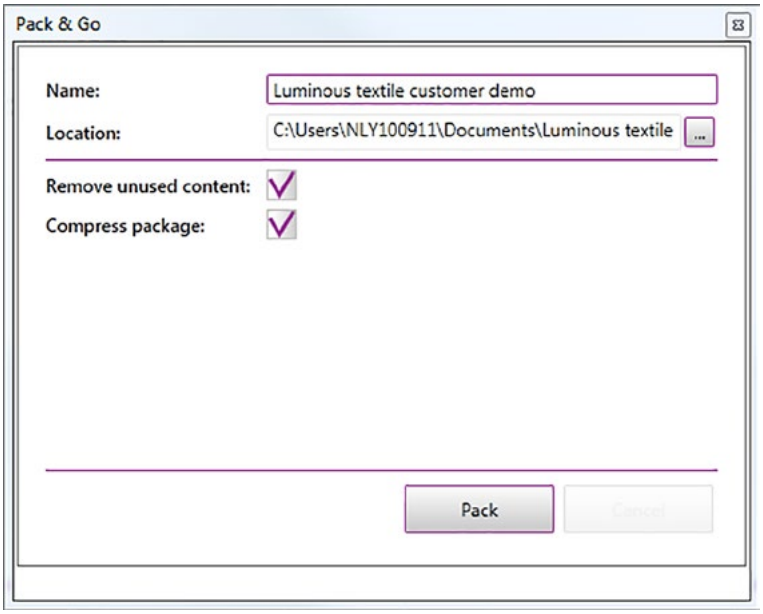

Figure 33: Pack & Go

3.10. Retrieving the system information

You can retrieve the following information by selecting **Help** > **About** in the menu.

- Content Manager version

Figure 34: Content Manager version

Congratulations! You have learnt the basic and important functionality of Content Manager.

If you have any questions, please contact: *support.luminous-textile@philips.com*

4. Content Manager version

4.1. Control page

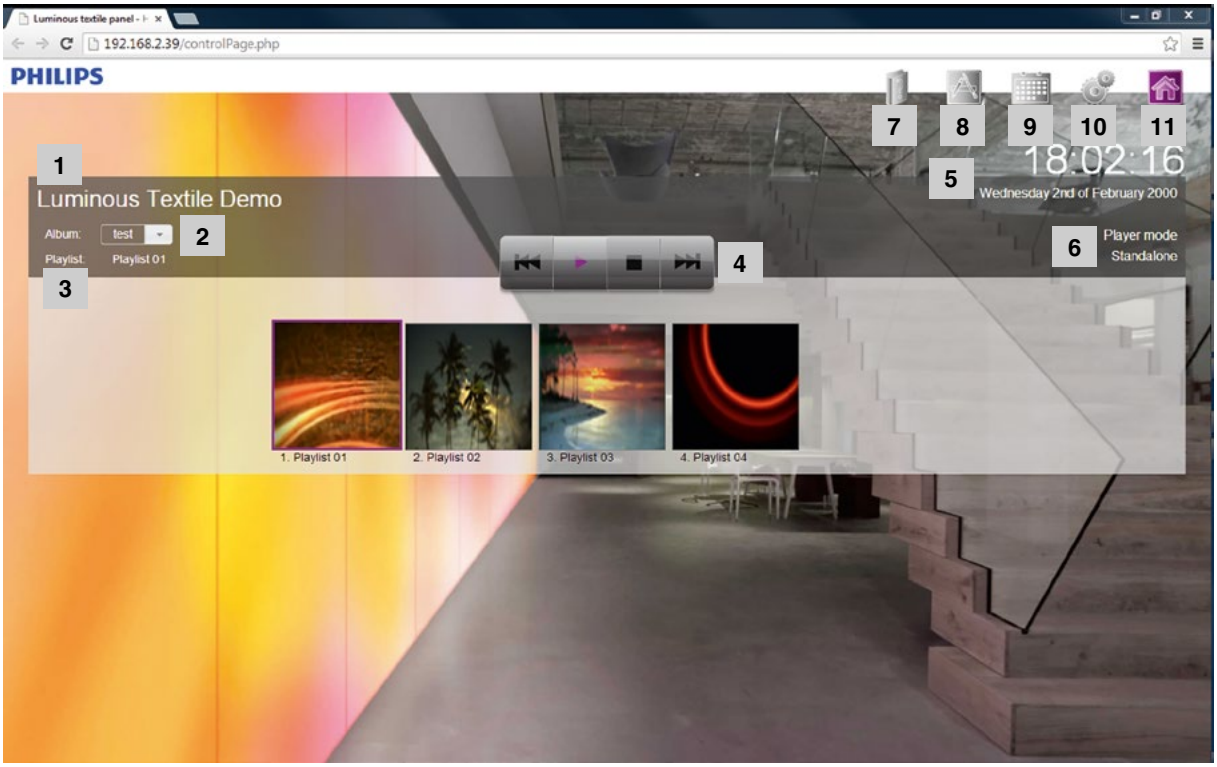

Figure 35: Control page

1	Luminous textile panel name.
2	Current playing album.
3	Current playing playlist name.
4	Control buttons (Previous playlist, Play, Stop, Next playlist).
5	Date and time: The panel's internal date and time settings. When necessary, you can change the time in the administrator section.
6	Play mode: Indicates the play mode for this panel. a. Standalone: the panel b. Master: an "active" panel and most time is connected to a remote control. The "Master" panel is responsible for reacting on user commands or system synchronization activities for all "Slave" panels in the same sub-network. Only one "Master" panel **should be** set in the same sub-network. c. Slave: a "passive" panel. It reacts on the command sent by a "Master" panel in the same sub-network.
7	The user manual link: Shows all product related manual documents.
8	Application page: Shows different applications that can be run on the installation (Color correction app, etc.)
9	Scheduler: Shows you the currently active schedule. A user can also modify or create a new schedule and save it.
10	Settings: Log in to settings page. Default login: • Username: admin • Password: admin
11	Home: Go back to the Control page.

4.2. Settings page

4.2.1. Administrator settings section

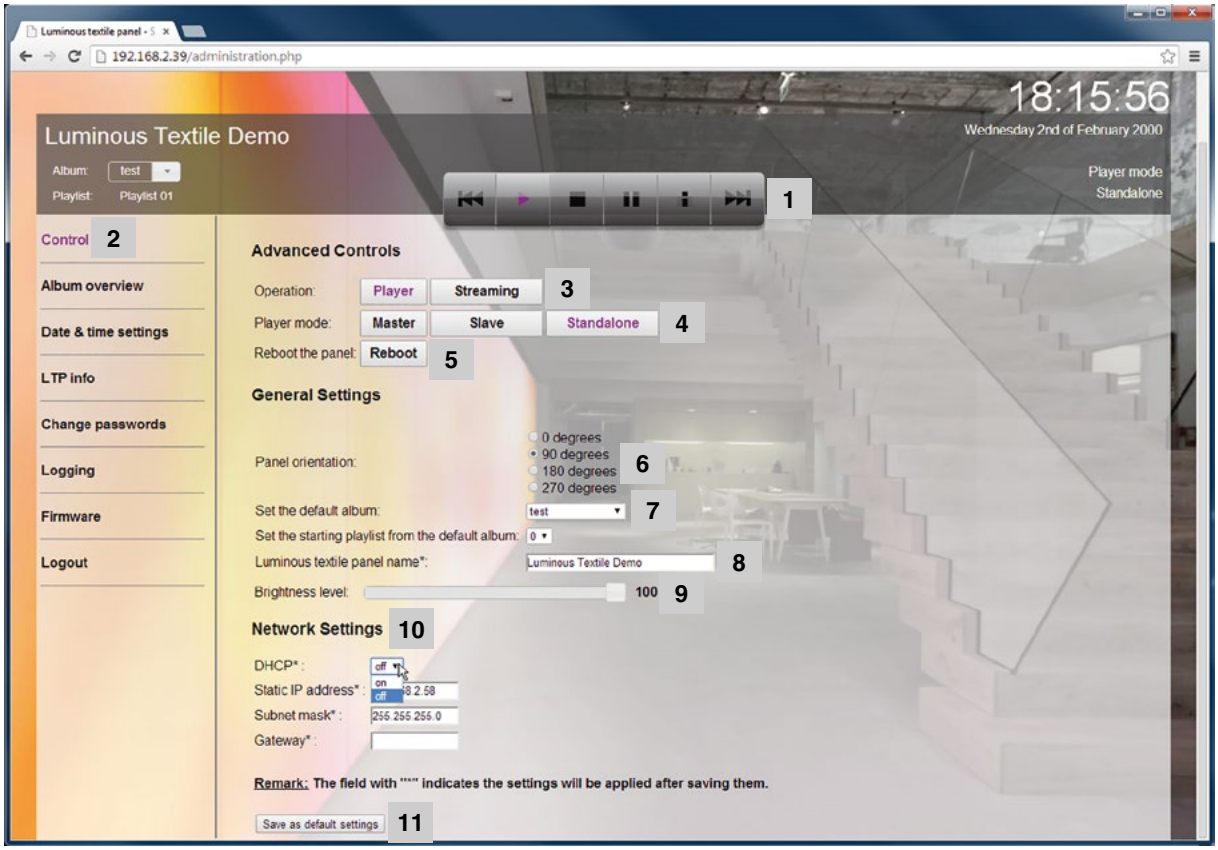

Figure 36: Administrator section

1	Basic Controls (buttons): Previous playlist, Play, Stop, Pause, Identify, Next.
2	Administrator settings menu.
3	Option for setting the luminous textile panel in "player mode" or "streaming mode". When set in "streaming mode", the panel acts as a Philips Kinet device.
4	Change the panel's Master/Slave/Standalone setting. This can also be done in the Content Manager (not recommended).
5	Reboot: Restart the LTP software. A reboot takes a few seconds.
6	Panel orientation: Rotate the content to match the orientation of the LTP.
7	Select which file to play: When multiple albums (created in the Content Manager) have been uploaded to the installation you can select the album and the playlist of the album that should be played when the installation powers up.
8	Luminous Textile Panel Name: Change the name of the LTP.
9	Brightness Level: This changes the total brightness of the panel.
10	Network Settings: Enable or disable DHCP and enter the static IP address settings for each panel.
11	Save as default settings button.

4.2.2. Content list

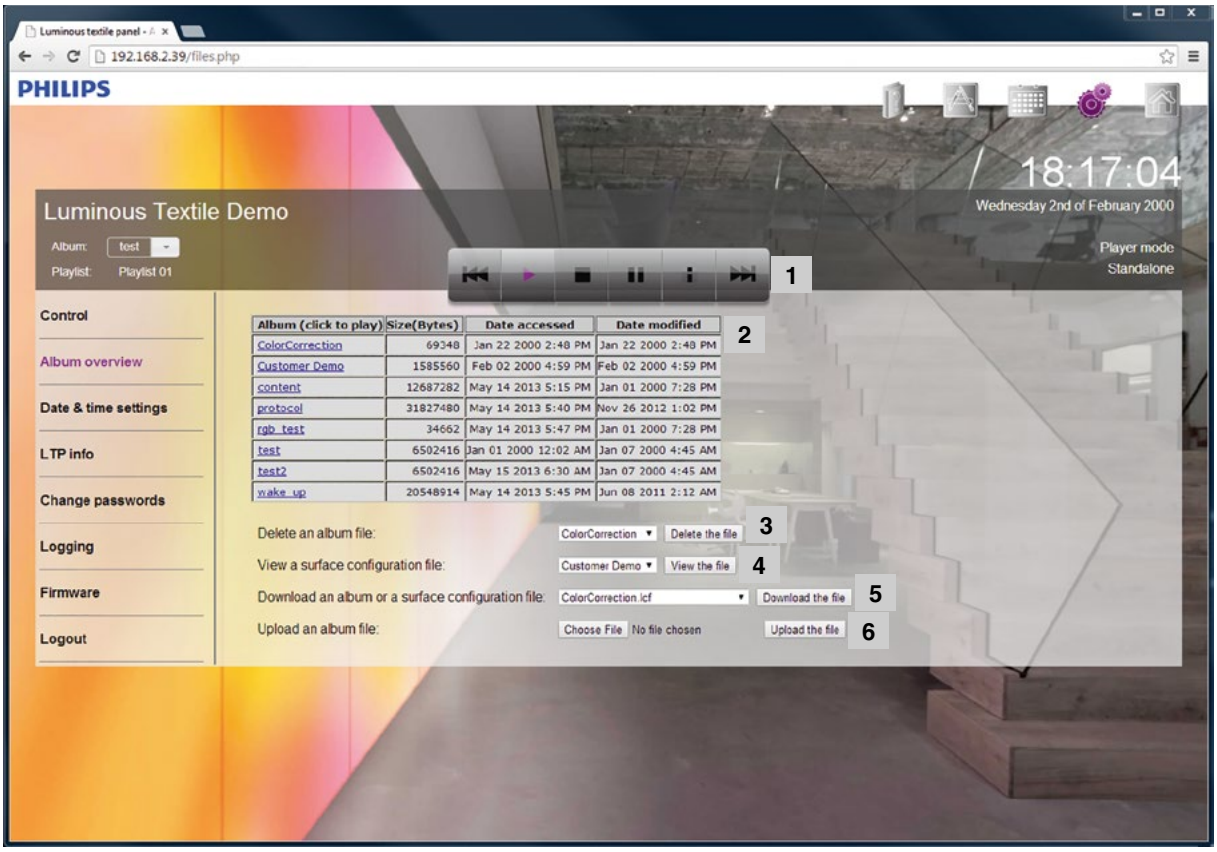
Luminous textile panel
192.168.2.39/files.php
PHILIPS
18:17:04
Wednesday 2nd of February 2000
Luminous Textile Demo
Album: test
Playlist: Playlist 01
Player mode
Standalone
1
Control
Album overview
Date & time settings
LTP info
Change passwords
Logging
Firmware
Logout
Album (click to play) Size(Bytes) Date accessed Date modified
ColorCorrection 69348 Jan 22 2000 2:48 PM Jan 22 2000 2:48 PM
Customer Demo 1585560 Feb 02 2000 4:59 PM Feb 02 2000 4:59 PM
content 12687282 May 14 2013 5:15 PM Jan 01 2000 7:28 PM
protocol 31827480 May 14 2013 5:40 PM Nov 26 2012 1:02 PM
rgb_test 34662 May 14 2013 5:47 PM Jan 01 2000 7:28 PM
test 6502416 Jan 01 2000 12:02 AM Jan 07 2000 4:45 AM
test2 6502416 May 15 2013 6:30 AM Jan 07 2000 4:45 AM
wake_up 20548914 May 14 2013 5:45 PM Jun 08 2011 2:12 AM
2
Delete an album file: ColorCorrection Delete the file 3
View a surface configuration file: Customer Demo View the file 4
Download an album or a surface configuration file: ColorCorrection.lcf Download the file 5
Upload an album file: Choose File No file chosen Upload the file 6

Figure 37: Album list

1	Basic Controls (buttons): Previous playlist, Play, Stop, Pause, Identify, Next.
2	Content List: An overview of all uploaded content files.
3	Delete an Album file: Delete the selected Album. Note: It is possible to delete the Album that is currently playing.
4	View a Surface Configuration file: Gives a preview of the Surface configuration file stored in the installation.
5	Download an Album or Surface Configuration file: Downloads the selected files to your PC for backup purposes.
6	Upload an Album: Choose a Content file from your PC to upload to the panel manually (this action is not recommended). The content files can be the files that you have downloaded from a panel or created within Content Manager.

4.2.3. Setting the time

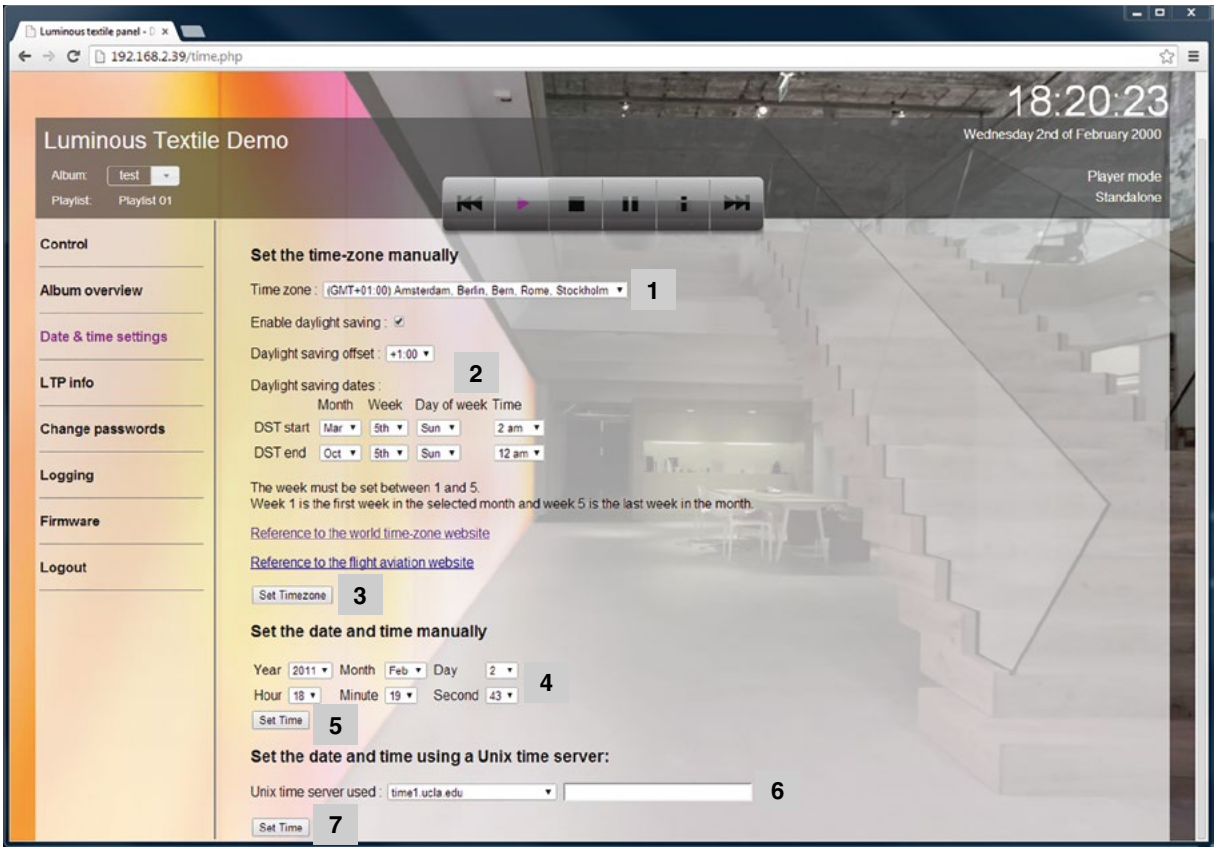

Figure 38: Setting the time

1	Time Zone: Sets the correct time zone for the luminous textile panels.
2	Daylight Saving: Sets the corresponding winter and summer time periods for the region where the LTPs are installed.
3	Set Timezone button: Stores the time zone settings.
4	Set the date and time manually: When the installation cannot retrieve time information because it is not connected to the internet, the date and time can be set manually. Click Set Time when finished to save the settings.
5	Execute the action: "Set the date and time manually" by clicking the "Set Time" button.
6	Set the date and time using a Unix Time server: When the installation is connected to the internet, the time can be automatically synchronised with a Unix Time server. Once a Time server has been selected, click Set Time to store the settings.
7	Execute the action: "set the date and time using a Unix Time server" by clicking the "Set Time" button.

4.2.4. LTP info

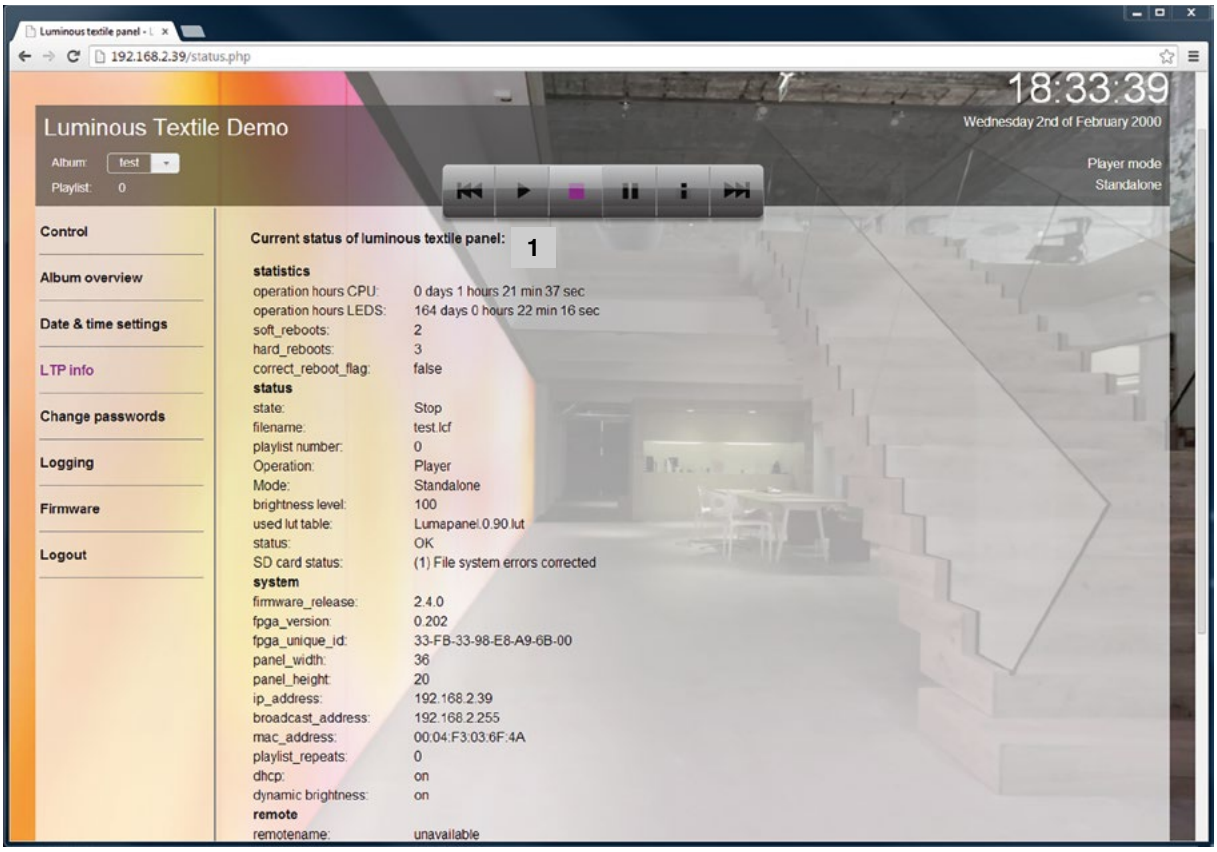

Figure 39: LTP info

1 Find all information about your luminous textile panel in this overview. This can be used for error checking, or on request of the LLS support team.

4.2.5. Changing passwords

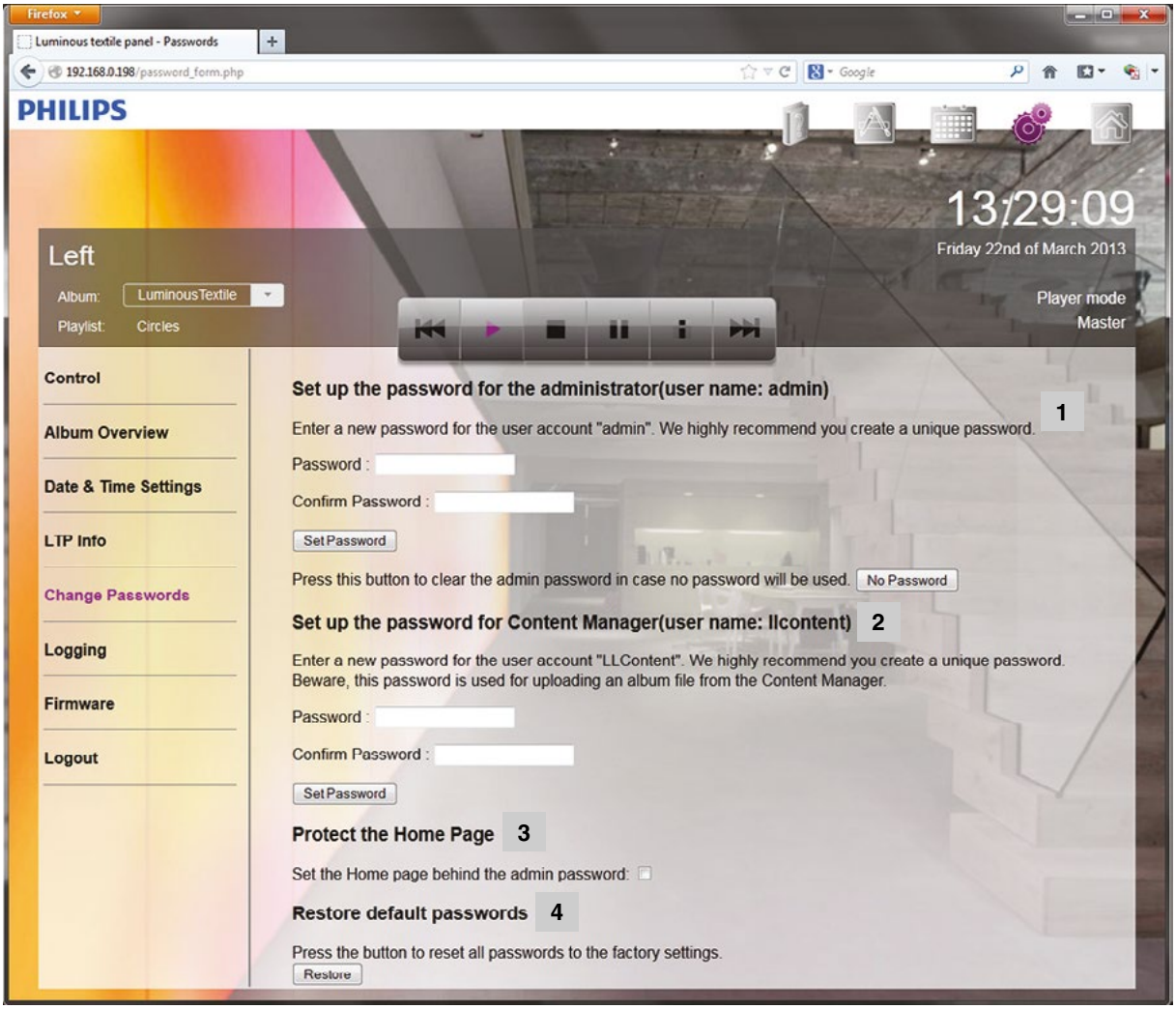
Firefox
Luminous textile panel - Passwords
192.168.0.198/password_form.php
PHILIPS
13:29:09
Friday 22nd of March 2013
Left
Album: LuminousTextile
Playlist: Circles
Player mode
Master
Control
Album Overview
Date & Time Settings
LTP Info
Change Passwords
Logging
Firmware
Logout
Set up the password for the administrator(user name: admin)
1
Enter a new password for the user account "admin". We highly recommend you create a unique password.
Password :
Confirm Password :
Set Password
Press this button to clear the admin password in case no password will be used.
No Password
Set up the password for Content Manager(user name: llcontent)
2
Enter a new password for the user account "LLContent". We highly recommend you create a unique password.
Beware, this password is used for uploading an album file from the Content Manager.
Password :
Confirm Password :
Set Password
Protect the Home Page
3
Set the Home page behind the admin password:
Restore default passwords
4
Press the button to reset all passwords to the factory settings.
Restore

Figure 40: Changing passwords

1	Administration page password setup: Change the password used to access the administrator section of the control page. (The username cannot be changed.)
2	Content Manager Password setup: Change the password required to upload a project from the Content Manager - Uploader. (The username cannot be changed.)
3	Home Page password: Prevent access to the Control Page - Home by setting a password.
4	Restore default passwords: Sets the passwords back to the factory settings. a. Admininstration page: i. Username: admin ii. Password: admin b. Content Manager - Uploader i. Username: llcontent ii. Password: llcontent

4.2.6. Logging

This tab should only be used on request of the LLS support team

4.2.7. Firmware

This tab should only be used on request of the LLS support team

4.2.8. Logout

Press this button to logout of the administrator envirionment.

4.3. Schedule

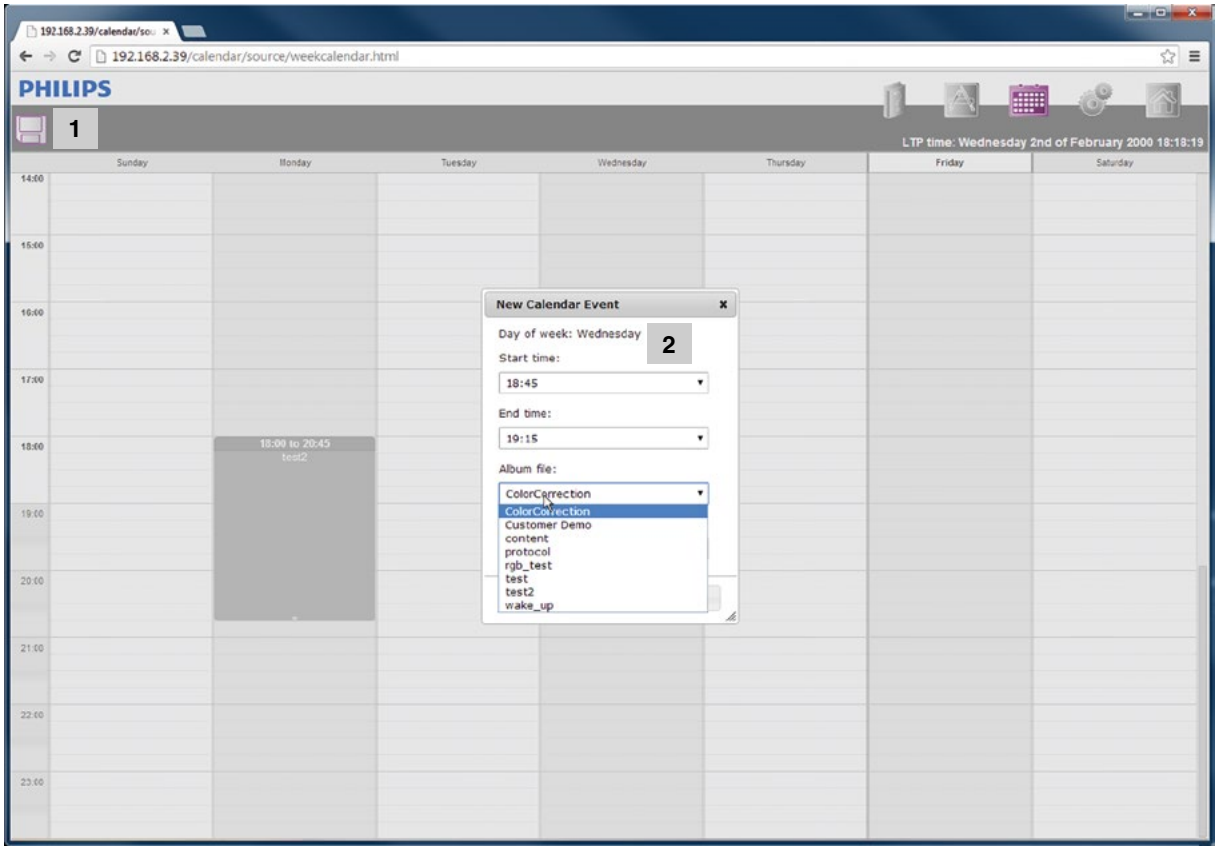

Figure 41: Schedule

1	Save the schedule.
2	Schedule representation: Gives a weekly overview of the schedule programmed.

4.4. Applications

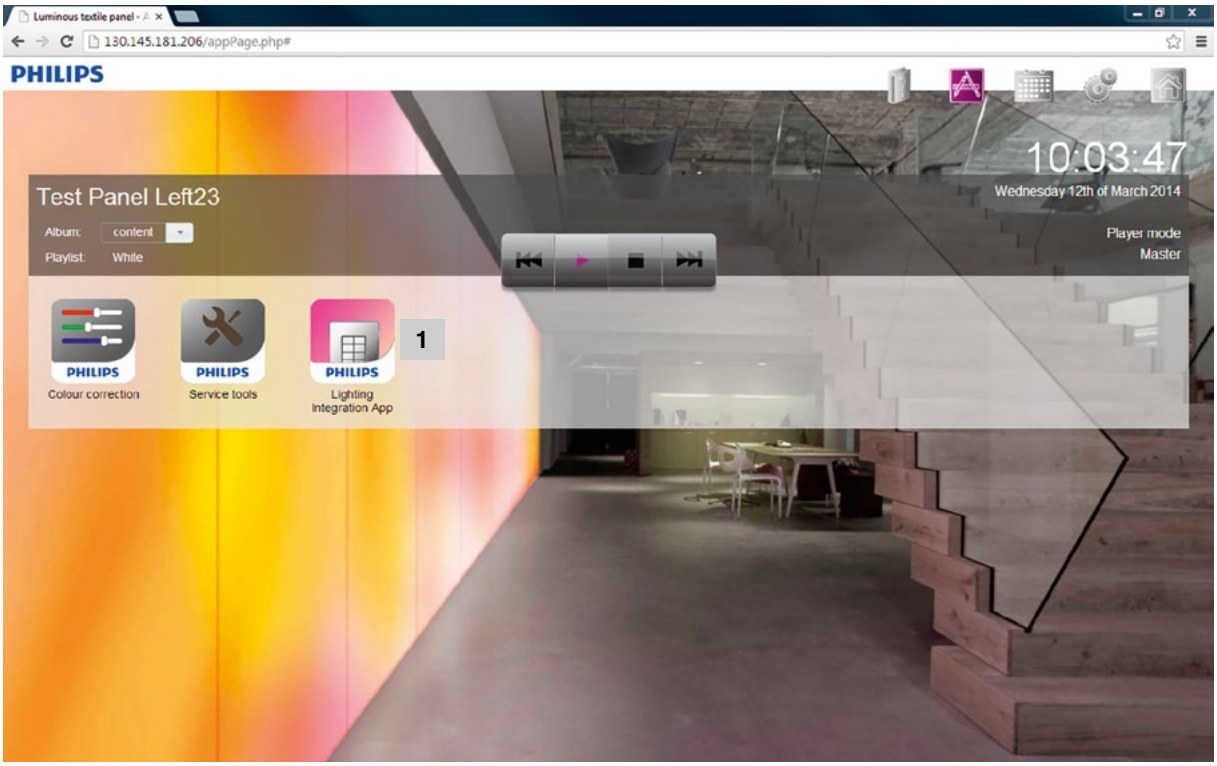

Figure 42: Applications

1	Overview of available apps. Press an app to open.

4.4.1. Colour correction app

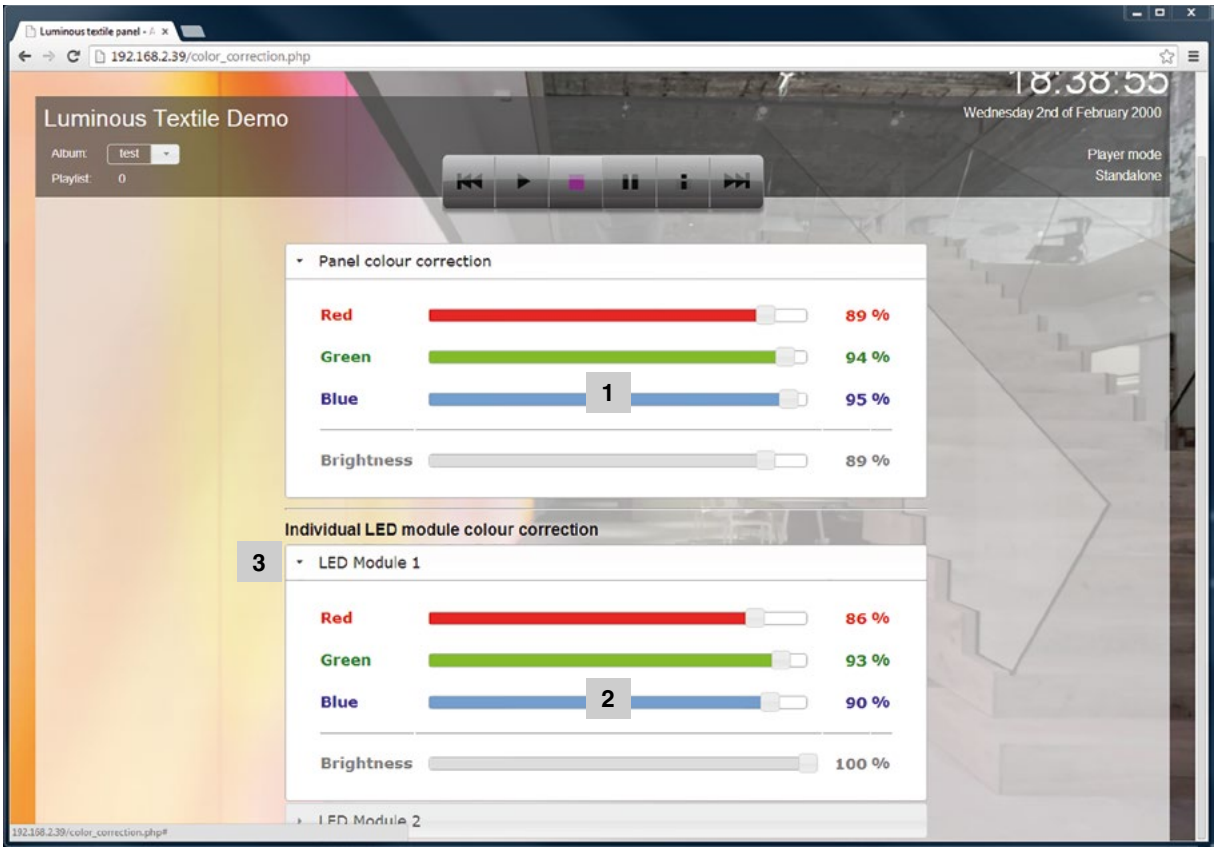

Figure 43: Colour correction app

1	Adjust sliders to influence the complete panel.
2	Adjust LED module sliders to adjust the colors of an individual module. Note this will be on top of the complete panel colour correction sliders.
3	The number of LED modules available in your panel will show.

4.4.2. Service tools app

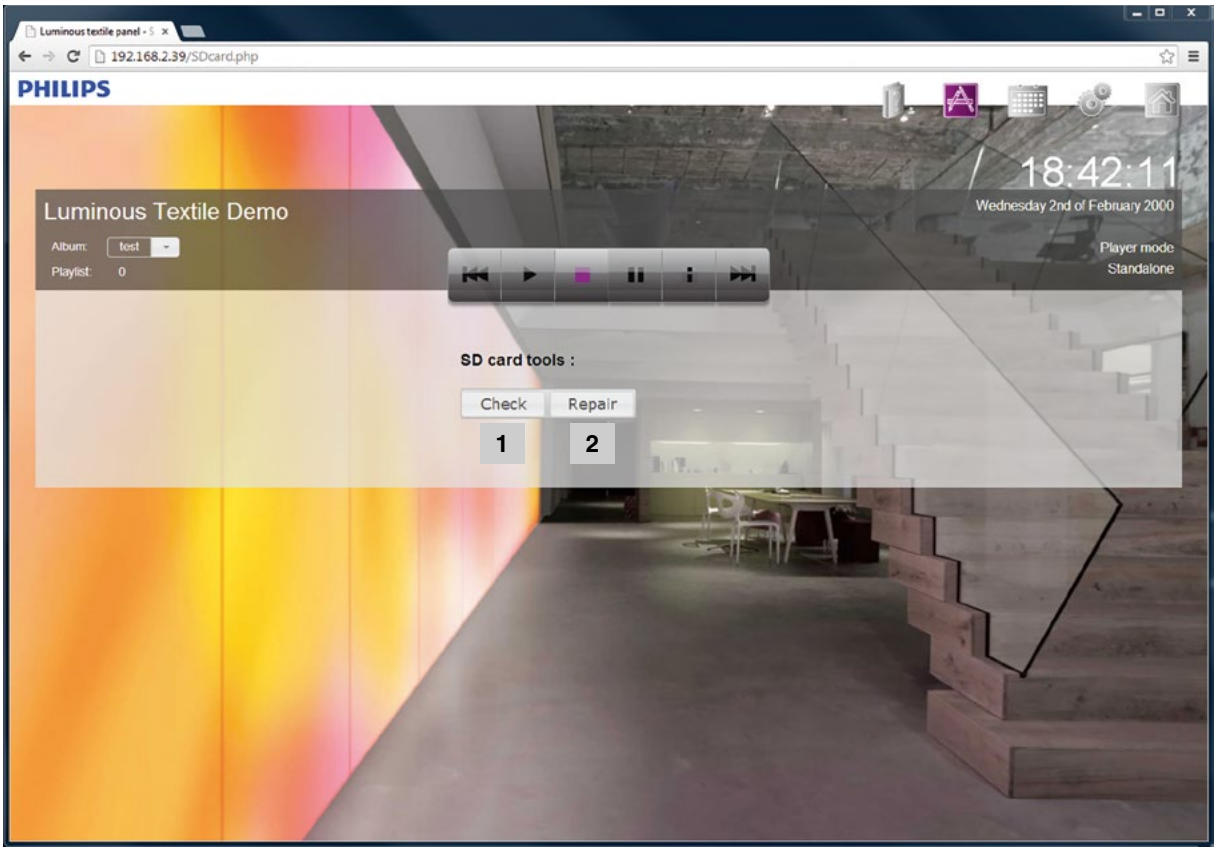

Figure 44: Service tools app

1	Press the check button to verify SD card status. Do not interrupt the checking process.
2	Only if advised in after pressing button 1, press repair to repair you SD card. Do not interrupt the repairing process.

4.4.3. Lighting integration app

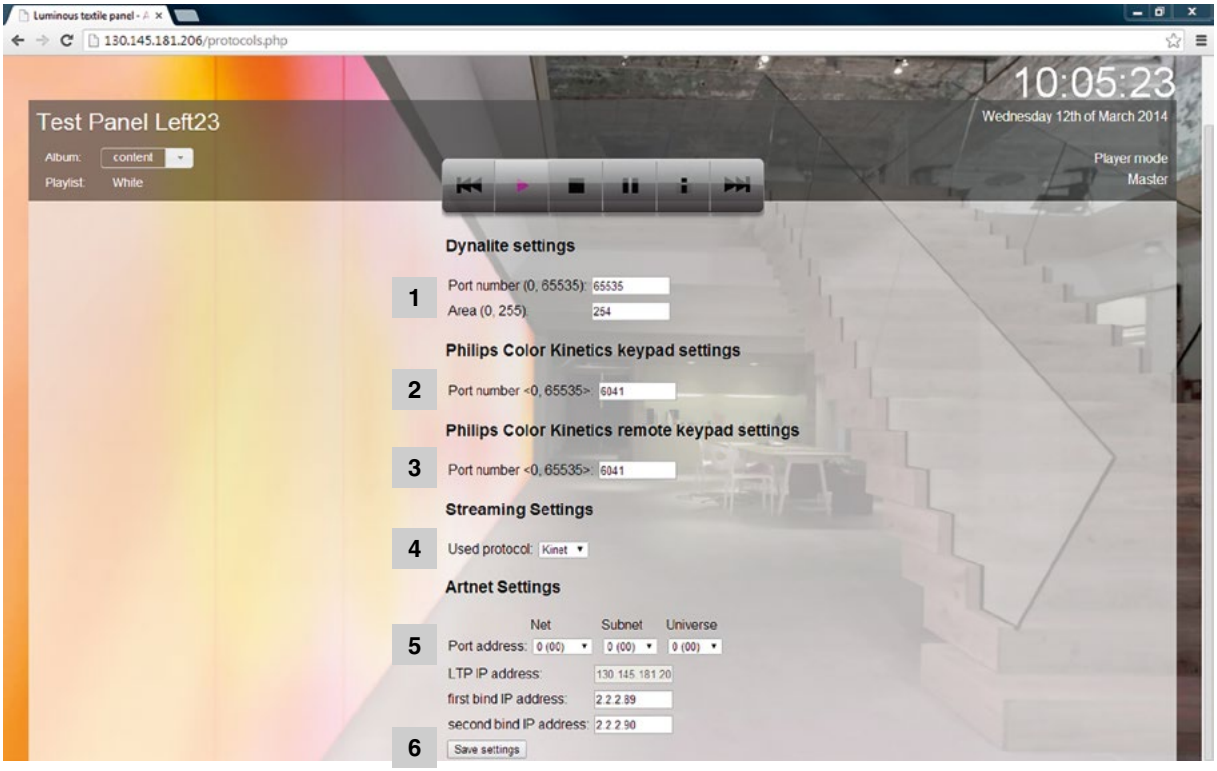

Figure 45: Lighting integration app

1	The port number used by the Dynalite ethernet gateway and the area the panels are controlled with.
2	The port number used by the Philips Color Kinetics keypad, by default 6041.
3	The port number used by the Philips Color Kinetics remote keypad, by default 6041.
4	Select if KiNET or Art-Net is the steaming protocol to use if panel is in streaming mode.
5	Art-Net setting details, used in Art-Net mode only.
6	Click to save and activate settings 4-5.

For more information on system integration and the use of these parameters please see the system integration document on the *www.largeluminoussurfaces.com* website

5. FAQ

1. Does the tool support other video file formats?

Answer: The officially supported video file format is WMV, encoded with the WVC1 codec.
If a different codec is installed on your computer, the tool may support your video format.

2. Why does it takes so long to convert playlists to panel content file?

Answer: The time to convert the playlists to the content that will be played on a panel depend on:
- how many different video files are being used in the playlists.
- how long a video is.

It may require a long precessing time to convert the playlists.

3. Why is it not possible to have a "slave" panel automatically go into play mode after I click its "identify" button in the Surface Configurator?

Answer: This is an intended behaviour. Suppose three panels (one Master, two Slaves) are installed and a user has clicked the identify button for every panel, i.e. all panels are in identify mode. The system is designed so that when the user sets the Master panel to play mode the Slave panels will not automatically go into play mode, i.e they will not automatically switch from identify mode to play mode.

4. Why my content is being played out of synchronization?

Answer: Please check if the panels are connected to a same sub-network. For example, you can check if all panels are being plugged to the correct sockets in the router.

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7. Contact / Information

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